New Middle School / High School

Seaside School District

1801 S. FRANKLIN STREET, SEASIDE, OR 97138

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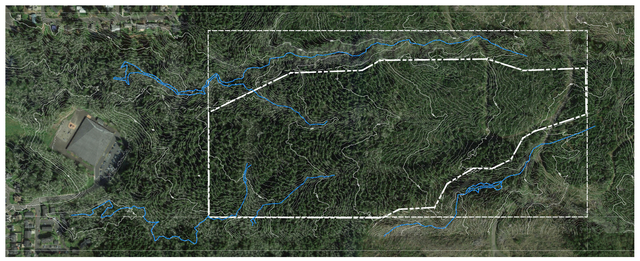

VICINITY MAP

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BRIC ARCHITECTURE, INC.

Project #17007

4/5/2018

New Middle School / High School

Bid Package 1

Bid Package 1

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SEASIDE NEW MIDDLE + HIGH SCHOOL
SEASIDE, OREGON

GENERAL NOTES

1. SURVEY PROVIDED BY KPFF, DATED DECEMBER 11, 2017. ELEVATIONS ARE BASED ON NAVD 88 (GEOID 12A) VERTICAL DATUM PER OREGON REAL-TIME GPS NETWORK (ORGN).
2. CONSTRUCTION LAYOUT (ALL ACTUAL LINES AND GRADES) SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF OREGON, BASED ON COORDINATES, DIMENSIONS, BEARINGS, AND ELEVATIONS, AS SHOWN, ON THE PLANS.
3. PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE HORIZONTAL POSITION PRIOR TO BEGINNING CONSTRUCTION LAYOUT. [SEE SHEET CX.X FOR PROJECT CONTROL INFORMATION.]
4. PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE VERTICAL POSITION BASED ON THE BENCHMARK STATED HEREON, PRIOR TO BEGINNING CONSTRUCTION LAYOUT.
5. WHEN DIMENSIONS AND COORDINATE LOCATIONS ARE REPRESENTED – DIMENSIONS SHALL HOLD OVER COORDINATE LOCATION. NOTIFY THE CIVIL ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY.
6. BUILDING SETBACK DIMENSIONS FROM PROPERTY LINES SHALL HOLD OVER ALL OTHER CALLOUTS. PROPERTY LINES AND ASSOCIATED BUILDING SETBACKS SHALL BE VERIFIED PRIOR TO CONSTRUCTION LAYOUT.
7. CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING MONUMENTATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT OF ANY MONUMENTS DAMAGED OR REMOVED DURING CONSTRUCTION. NEW MONUMENTS SHALL BE REESTABLISHED BY A LICENSED SURVEYOR.
8. CONTRACTOR TO REFERENCE SOILS REPORT BY GEODESIGN DATED NOVEMBER 20, 2017 FOR THE SITE SOILS CONDITIONS.
9. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS, THE PROJECT SPECIFICATIONS AND THE APPLICABLE REQUIREMENTS OF THE 2015 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE 2014 OREGON PLUMBING SPECIALTY CODE AND REQUIREMENTS OF THE CITY OF SEASIDE.
10. THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS. ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES FOR THE EXECUTION AND COMPLETION OF WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
11. ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987). EXCAVATORS MUST NOTIFY ALL PERTINENT COMPANIES OR AGENCIES WITH UNDERGROUND UTILITIES IN THE PROJECT AREA AT LEAST 48 BUSINESS-DAY HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS PRIOR TO COMMENCING AN EXCAVATION, SO UTILITIES MAY BE ACCURATELY LOCATED.
12. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL VERIFY ELEVATIONS, PIPE SIZE, AND MATERIAL TYPES OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF KPFF CONSULTING ENGINEERS, 72 HOURS PRIOR TO START OF CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS.
13. THE ENGINEER OR OWNER IS NOT RESPONSIBLE FOR THE SAFETY OF THE CONTRACTOR OR HIS CREW. ALL O.S.H.A. REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
14. TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE IMPLEMENTED. THE CONTRACTOR SHALL ADHERE TO OREGON DEQ ESC REQUIREMENTS FOR MINIMUM EROSION CONTROL MEASURES. THE ESC FACILITIES SHOWN IN THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
15. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ROADWAYS, KEEPING THEM CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS, AND PROVIDING DUST CONTROL AS REQUIRED.
16. TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO CITY OF SEASIDE FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
17. CONTRACTOR SHALL MAINTAIN ALL UTILITIES TO EXISTING SEASIDE HEIGHTS ELEMENTARY SCHOOL AT ALL TIMES DURING CONSTRUCTION.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE OWNER.
19. NOTIFY CITY OF SEASIDE INSPECTOR 72 HOURS BEFORE STARTING WORK. A PRECONSTRUCTION MEETING WITH THE OWNER, THE OWNER'S ENGINEER, CONTRACTOR AND THE CITY OF SEASIDE REPRESENTATIVE SHALL BE REQUIRED.

CONSTRUCTION NOTES

GENERAL

1. ACTUAL LINES AND GRADES SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF OREGON, BASED ON DIMENSIONS, ELEVATIONS AND BEARINGS AS SHOWN ON THE PLANS.
2. SUBGRADE AND TRENCH BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER IS NOT PERMITTED.
3. SPECIAL INSPECTION REQUIRED FOR ALL COMPACTION TESTING.

DEMOLITION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF EXISTING AC, CURBS, SIDEWALKS AND OTHER SITE ELEMENTS WITHIN THE SITE AREA IDENTIFIED IN THE PLANS.
2. EXCEPT FOR MATERIALS INDICATED TO BE STOCKPILED OR TO REMAIN ON OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY, REMOVED FROM THE SITE, AND DISPOSED OF PROPERLY.
3. ITEMS INDICATED TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND DELIVERED STORED AT THE PROJECT SITE AS DIRECTED BY THE OWNER.
4. ALL LANDSCAPING, PAVEMENT, CURBS AND SIDEWALKS, BEYOND THE IDENTIFIED SITE AREA, DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED TO THEIR ORIGINAL CONDITION OR BETTER.
5. CONCRETE SIDEWALKS SHOWN FOR DEMOLITION SHALL BE REMOVED TO THE NEAREST EXISTING CONSTRUCTION JOINT.
6. SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING AND NEW PAVEMENT.

UTILITIES

1. ADJUST ALL INCIDENTAL STRUCTURES, MANHOLES, VALVE BOXES, CATCH BASINS, FRAMES AND COVERS, ETC. TO FINISHED GRADE.
2. CONTRACTOR SHALL ADJUST ALL EXISTING AND/OR NEW FLEXIBLE UTILITIES (WATER, TV, TELEPHONE, ELEC., ETC.) TO CLEAR ANY EXISTING OR NEW GRAVITY DRAIN UTILITIES (STORM DRAIN, SANITARY SEWER, ETC.) IF CONFLICT OCCURS.
3. CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE INSTALLATION OF OR ADJUSTMENT TO GAS, ELECTRICAL, POWER AND TELEPHONE SERVICE.
4. BEFORE BACKFILLING ANY SUBGRADE UTILITY IMPROVEMENTS CONTRACTOR SHALL SURVEY AND RECORD MEASUREMENTS OF EXACT LOCATION AND DEPTH AND SUBMIT TO ENGINEER AND OWNER.

STORM AND SANITARY

1. CONNECTIONS TO EXISTING STORM AND SANITARY SEWERS SHALL CONFORM TO THE 2015 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 00490, "WORK ON EXISTING SEWERS AND STRUCTURES".
2. BEGIN LAYING STORM DRAIN AND SANITARY SEWER PIPE AT THE LOW POINT OF THE SYSTEM, TRUE TO GRADE AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERT. THE CONTRACTOR SHALL ESTABLISH LINE AND GRADE FOR THE STORM AND SANITARY SEWER PIPE USING A LASER.
3. ALL ROOF DRAIN AND CATCH BASIN LEADERS SHALL HAVE A MINIMUM SLOPE OF 2 PERCENT UNLESS NOTED OTHERWISE IN THE PLANS.

WATER

1. ALL WATER AND FIRE PROTECTION PIPE SHALL HAVE A MINIMUM 36-INCH COVER TO THE FINISH GRADE.
2. ALL WATER AND FIRE PRESSURE FITTINGS SHALL BE PROPERLY RESTRAINED WITH THRUST BLOCKS PER DETAIL.
3. ALL WATER MAIN / SANITARY SEWER CROSSINGS SHALL CONFORM TO THE OREGON STATE HEALTH DEPARTMENT REGULATIONS, CHAPTER 333.

EARTHWORKS

1. CONTRACTOR SHALL PREVENT SEDIMENTS AND SEDIMENT LADEN WATER FROM ENTERING THE STORM DRAINAGE SYSTEM.
2. TRENCH BEDDING AND BACKFILL SHALL BE AS SHOWN ON THE PIPE BEDDING AND BACKFILL DETAIL, THE PROJECT SPECIFICATIONS AND AS REQUIRED IN THE SOILS REPORT. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER WILL NOT BE PERMITTED.

PAVING

1. SEE LANDSCAPE PLANS FOR SIDEWALK FINISHING AND SCORING PATTERNS.

MATERIAL NOTES

1. GENERAL: MATERIALS SHALL BE NEW. THE USE OF MANUFACTURER'S NAMES, MODELS, AND NUMBERS IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, AND USEFULNESS. PROPOSED SUBSTITUTIONS WILL REQUIRE WRITTEN APPROVAL FROM [ARCHITECT / OWNER / ENGINEER] PRIOR TO INSTALLATION.
2. STORM AND SANITARY SEWER PIPING SHALL BE [PVC PIPE, DUCTILE IRON PIPE, REINFORCED CONCRETE PIPE (RCP), NON-REINFORCED CONCRETE PIPE (NRCP) OR HIGH DENSITY POLYETHYLENE (HDPE) PIPE] CONFORMING TO THE PROJECT SPECIFICATIONS; AS INDICATED IN THE PLANS. PIPES WITH LESS THAN 2' OF COVER SHALL BE C900/C905 PVC, HDPE OR DUCTILE IRON PIPE.
3. PRIVATE WATER MAINS 4-INCH DIAMETER AND LARGER SHALL BE [DUCTILE IRON PIPE OR PVC PIPE] CONFORMING TO THE PROJECT SPECIFICATIONS; AS INDICATED IN THE PLANS.
4. PRIVATE WATER LINES 3-INCH DIAMETER AND SMALLER SHALL BE [TYPE K COPPER TUBING OR SCHEDULE 40 PVC] CONFORMING TO THE PROJECT SPECIFICATIONS; AS INDICATED IN THE PLANS.
5. CONCRETE FOR CURBS, SIDEWALK AND DRIVEWAYS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF [3,300] PSI AT 28 DAYS.

SEPARATION STATEMENT

ALL WATER MAIN CROSSINGS SHALL CONFORM TO THE OREGON STATE HEALTH DEPARTMENT, CHAPTER 333. WATER MAINS SHALL CROSS OVER SANITARY SEWERS WITH A 18" MINIMUM CLEARANCE BETWEEN OUTSIDE DIAMETERS OF PIPE WITH ALL PIPE JOINTS EQUIDISTANT FROM CROSSING. HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWERS IN PARALLEL INSTALLATIONS SHALL BE 10'. MAINTAIN 12" MINIMUM VERTICAL DISTANCE FOR ALL OTHER UTILITY CROSSINGS AND 12" HORIZONTAL PARALLEL DISTANCE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN THE MINIMUM 10' HORIZONTAL SEPARATION, THE WATER MAIN SHALL BE LAID ON A SEPARATE SHELF IN THE TRENCH 18" INCHES ABOVE THE SEWER.

VEGETATED STORMWATER FACILITY NOTE

1. SUCCESSFUL CONSTRUCTION OF THE VEGETATED STORMWATER FACILITY DEPEND ON PROPER CONSTRUCTION SEQUENCING, MATERIALS, INSTALLATION, PROTECTION OF SUBGRADE AND EROSION CONTROL.
2. CONTRACTOR SHALL SETUP A PRE-CONSTRUCTION MEETING WITH CIVIL ENGINEER TO SPECIFICALLY DISCUSS THESE ITEMS. CONTACT _____ WITH KPFF CONSULTING ENGINEERS 503-542-38__.
3. SUBMITTAL REQUIREMENT: SUBMIT (1) 2 GALLON SAMPLE OF GROWING MEDIUM THAT MEETS THE SOIL SPECIFICATION FOR INFILTRATION TESTING BY KPFF FOR APPROVAL.



VICINITY MAP — MAP FROM: google.com ©
SCALE: NTS

PROJECT CONTACTS

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

CIVIL NOTES, LEGEND, AND ABBREVIATIONS

C0.01

4/5/2018
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C6.11	STORM DRAINAGE PLAN
C6.12	STORM DRAINAGE PLAN
C6.13	STORM DRAINAGE PLAN
C6.14	STORM DRAINAGE PLAN
C6.15	STORM DRAINAGE PLAN
C6.16	STORMDRAINAGE PLAN – FIELD DETENTION BID ALTERNATE
C6.20	STORM PROF
C6.51	BUILDING SUBDRAINAGE PLAN
C7.00	OVERALL UTILITY PLAN
C7.02	UTILITY PLAN
C7.05	UTILITY PLAN
C7.06	UTILITY PLAN
C7.07	UTILITY PLAN
C7.08	UTILITY PLAN
C7.10	UTILITY PLAN
C7.11	UTILITY PLAN
C7.12	UTILITY PLAN
C7.13	UTILITY PLAN
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C8.00	OVERALL WATER PLAN
C8.05	WATER PLAN
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C8.07	WATER PLAN
C8.08	WATER PLAN
C8.10	WATER PLAN
C8.11	WATER PLAN
C8.12	WATER PLAN
C8.13	WATER PLAN
C8.14	WATER PLAN
C8.15	WATER PLAN
C8.20	WATER PROFILES
C8.21	WATER PROFILES
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C9.00	CIVIL DETAILS
C9.01	CIVIL DETAILS
C9.02	CIVIL DETAILS
C9.03	CIVIL DETAILS
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C10.10	OVERALL CLEARING & DEMOLITON EROSION & SEDIMENT CONTROL PLAN
C10.11	CLEARING & DEMOLITON EROSION & SEDIMENT CONTROL PLAN
C10.12	CLEARING & DEMOLITON EROSION & SEDIMENT CONTROL PLAN
C10.13	CLEARING & DEMOLITON EROSION & SEDIMENT CONTROL PLAN
C10.14	CLEARING & DEMOLITION EROSION & SEDIMENT CONTROL PLAN
C10.20	OVERALL ROUGH GRADING EROSION AND SEDIMENT CONTROL PLAN
C10.21	ROUGH GRADING EROSION AND SEDIMENT CONTROL PLAN
C10.22	ROUGH GRADING EROSION AND SEDIMENT CONTROL PLAN
C10.23	ROUGH GRADING EROSION AND SEDIMENT CONTROL PLAN
C10.24	ROUGH GRADING EROSION AND SEDIMENT CONTROL PLAN
C10.30	OVERALL FINAL EROSION AND SEDIMENT CONTROL PLAN
C10.31	FINAL EROSION AND SEDIMENT CONTROL PLAN
C10.32	FINAL EROSION AND SEDIMENT CONTROL PLAN
C10.33	FINAL EROSION AND SEDIMENT CONTROL PLAN
C10.34	FINAL EROSION AND SEDIMENT CONTROL PLAN
C10.50	EROSION AND SEDIMENT CONTROL DETAILS
C10.51	EROSION AND SEDIMENT DETAILS

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CIVIL SHEET INDEX

C0.02

4/5/2018
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BOUNDARY & TOPOGRAPHIC SURVEY

LOCATED IN THE SE 1/4 OF SECTION 22 & THE SW 1/4 OF SECTION 23
TOWNSHIP 6 NORTH, RANGE 10 WEST, WILLAMETTE MERIDIAN
CITY OF SEASIDE, CLATSOP COUNTY, OREGON
FIELD SURVEYED: NOVEMBER 1, 2017

LEGEND:

- BUILDING OUTLINE WITH DOOR
- CONCRETE SURFACE
- ASPHALT SURFACE
- GRAVEL SURFACE / DIRT ROAD
- BUILDING OVERHANG
- CURB LINE
- EDGE OF ASPHALT
- RIGHT-OF-WAY LINE
- LOT LINE
- PROPERTY LINE
- E — ELECTRICAL LINE
- T — TELECOMMUNICATIONS LINE
- SD — STORM LINE
- SS — SANITARY SEWER LINE
- W — WATER LINE
- G — GAS LINE
- OHU — OVERHEAD UTILITY LINES
- [ ] — UNDERGROUND LINE PER AS-BUILTS
- SIGN
- DOUBLE POST SIGN
- B — BOLLARD
- FP — FLAG POLE
- HCP — HANDICAP PARKING
- HCR — HANDICAP RAMP
- RD — ROOF DRAIN
- E — ELECTRICAL METER
- TRAN — TRANSFORMER
- LUMINAIRE
- POWER POLE
- G — GAS METER
- GR — GAS RISER
- GV — GAS VALVE
- S — SANITARY MANHOLE
- CATCH BASIN
- WETLAND/DATA PLOT FLAG
- CO — SANITARY/STORM CLEAN OUT
- SANITARY/STORM STRUCTURE #
- T — TELECOMMUNICATIONS MANHOLE
- TELVLT — TELECOMMUNICATIONS VAULT
- TR — TELECOMMUNICATIONS RISER
- WATER VALVE
- FIRE HYDRANT
- W — WATER METER
- FIRE DEPARTMENT CONNECT
- WVLT — WATER VAULT
- HB — HOSE BIB
- ICV — IRRIGATION CONTROL VALVE
- UR — UNKNOWN UTILITY RISER
- DECIDUOUS TREE W/DBH -PERIMETER REPRESENTS DRIPLINE
- CONIFEROUS TREE W/DBH -PERIMETER REPRESENTS DRIPLINE
- #1 — PROJECT CONTROL POINT

SANITARY TABLE:

1. SANITARY MANHOLE
   RIM = 71.41'
   IN (SE) - CAPPED
   IE 6" IN (NE) = 66.71'
   IE 6" OUT (SW) = 66.11'
2. SANITARY MANHOLE
   RIM = 70.57'
   IE 8" IN (NE) = 59.87'
   IE 8" OUT (SW) = 59.72'
3. SANITARY MANHOLE
   RIM = 60.68'
   IE 8" IN (NE) = 53.73'
   IE 8" OUT (W) = 53.38'
4. SANITARY MANHOLE
   RIM = 52.36'
   IE 8" IN (E) = 45.91'
   IE 8" OUT (SW) = 45.46'
5. SANITARY MANHOLE
   RIM = 51.43'
   IE 8" IN (NE) = 43.93'
   IE 8" IN (SE) = 43.93'
   IE 8" OUT (SW) = 43.63'

STORM TABLE:

1. CATCH BASIN
   RIM = 65.13'
   IE 6" OUT (NW) = 63.63'

NOTES:

1.) VERTICAL DATUM: NAVD 88 (GEOID 12A)
ELEVATION WAS ESTABLISHED THROUGH A 3-MINUTE GPS OBSERVATION ON CONTROL POINT NO. 1 USING THE OREGON REAL-TIME GPS NETWORK (ORGN).

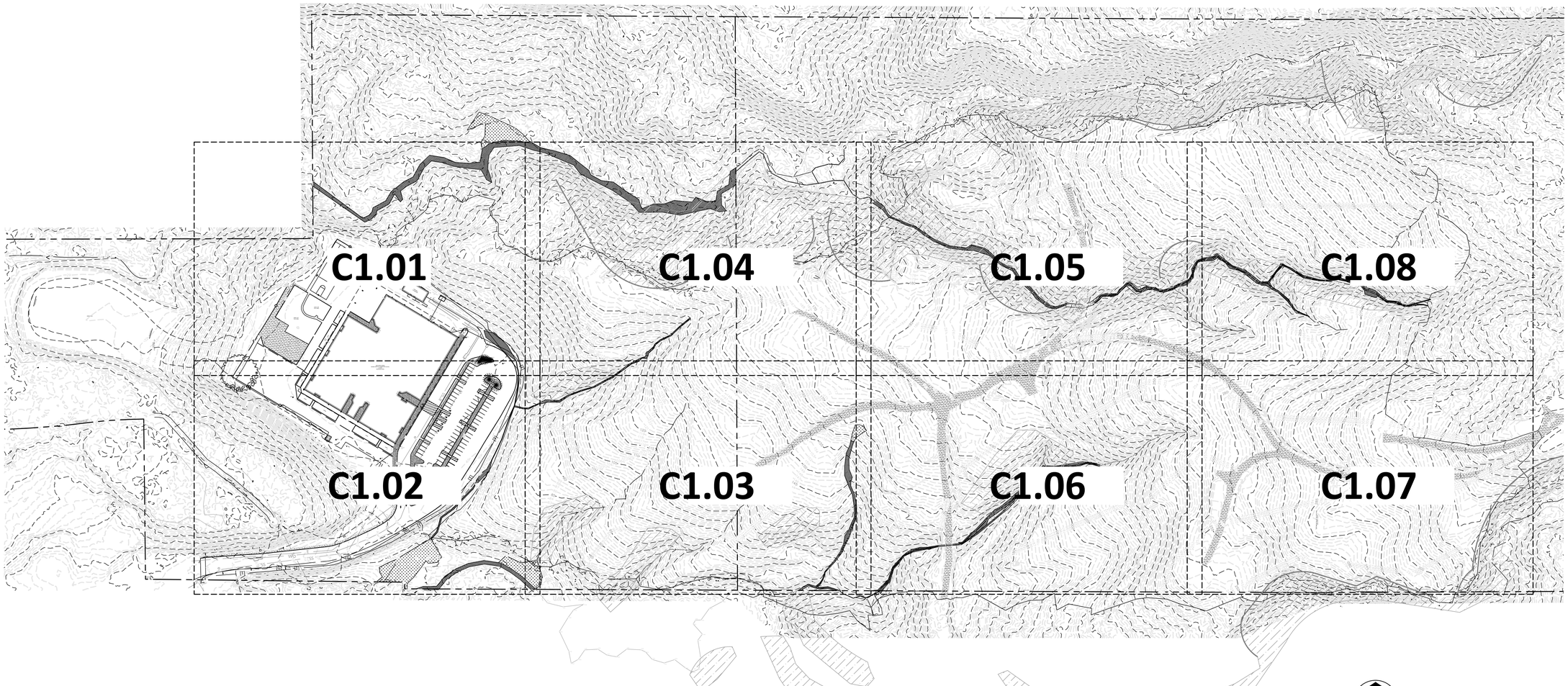
2.) HORIZONTAL DATUM: OREGON COORDINATE REFERENCE SYSTEM (OCRS), OREGON COAST ZONE.

3.) A TITLE REPORT WAS NOT PROVIDED FOR THE PURPOSE OF THIS SURVEY. EASEMENTS AFFECTING THE SUBJECT PROPERTY MAY EXIST. BOUNDARY LINES SHOWN HEREON ARE BASED ON CLATSOP COUNTY SURVEY RECORDS AND DEEDS PROVIDED.

4.) UTILITY LOCATIONS SHOWN ARE PER FIELD LOCATED UTILITY PAINT MARKS & REFERENCE MAPS MADE AVAILABLE BY THE VARIOUS UTILITY PROVIDERS. UNLESS INDICATED, DEPTHS OF UTILITY LINES ARE NOT AVAILABLE. ALL UTILITY LOCATIONS SHOULD BE FIELD VERIFIED (POTHOLED) PRIOR TO CONSTRUCTION.

PROJECT CONTROL:

STATION	DESCRIPTION	NORTHING	EASTING	ELEVATION
40	MAG NAIL W/ WASHER "KPFF CONTROL"	1661909.20	478260.03	66.02'
41	MAG NAIL W/ WASHER "KPFF CONTROL"	1662142.52	478404.16	69.81'
42	MAG NAIL W/ WASHER "KPFF CONTROL"	1662341.26	478400.53	70.92'
43	MAG NAIL W/ WASHER "KPFF CONTROL"	1662485.31	478171.84	70.86'
62	MAG NAIL W/ WASHER "KPFF CONTROL"	1662282.09	478484.01	69.93'
64	MAG NAIL W/ WASHER "KPFF CONTROL"	1662205.84	478008.68	71.00'
65	MAG NAIL W/ WASHER "KPFF CONTROL"	1662066.85	478206.74	70.31'
66	MAG NAIL W/ WASHER "KPFF CONTROL"	1662109.86	478106.19	70.41'



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revisions	
project #	17007

EXISTING CONDITIONS

C1.00

4/5/2018
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BOUNDARY & TOPOGRAPHIC SURVEY

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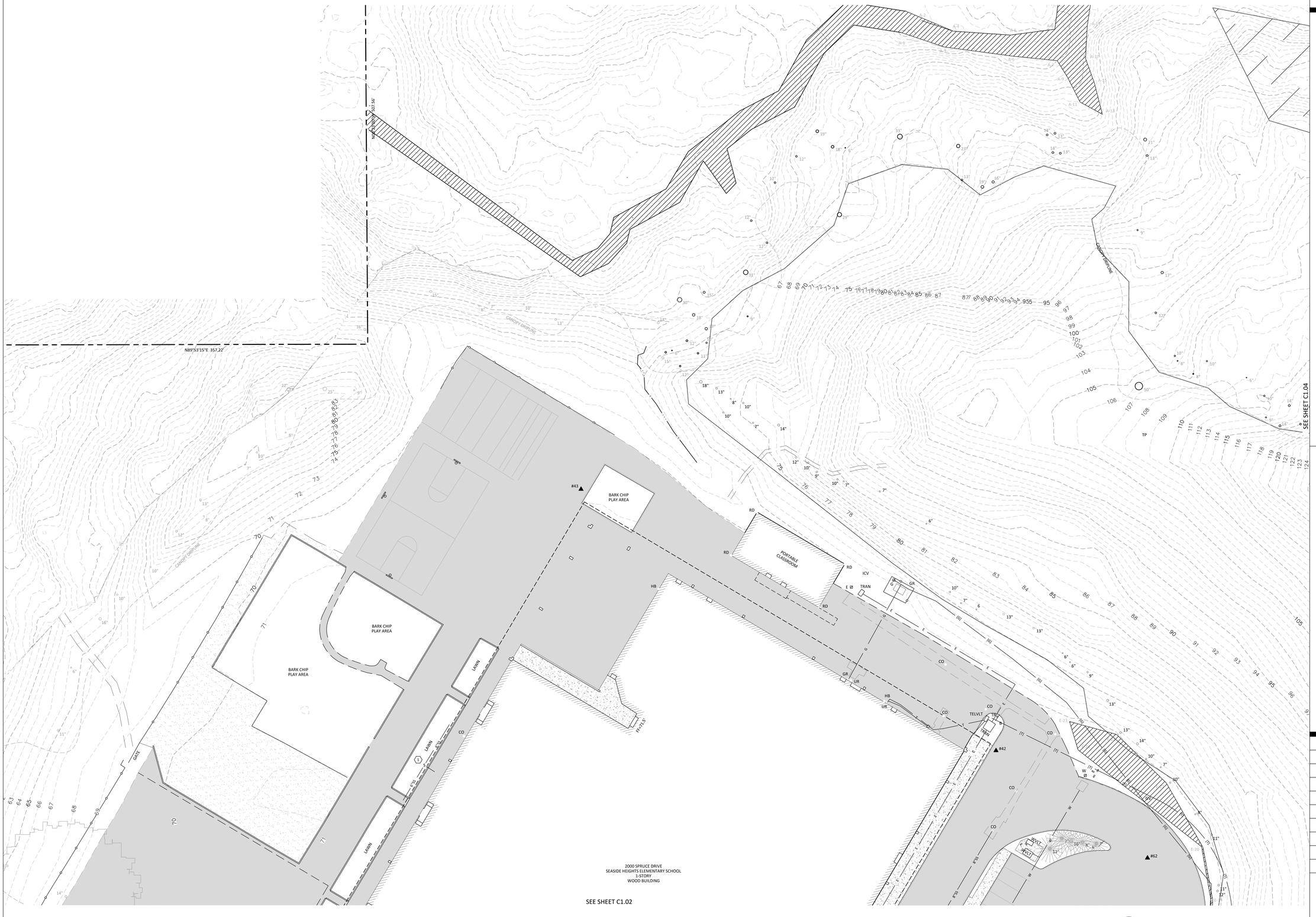

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EXISTING CONDITIONS PLAN

C1.01

4/5/2018
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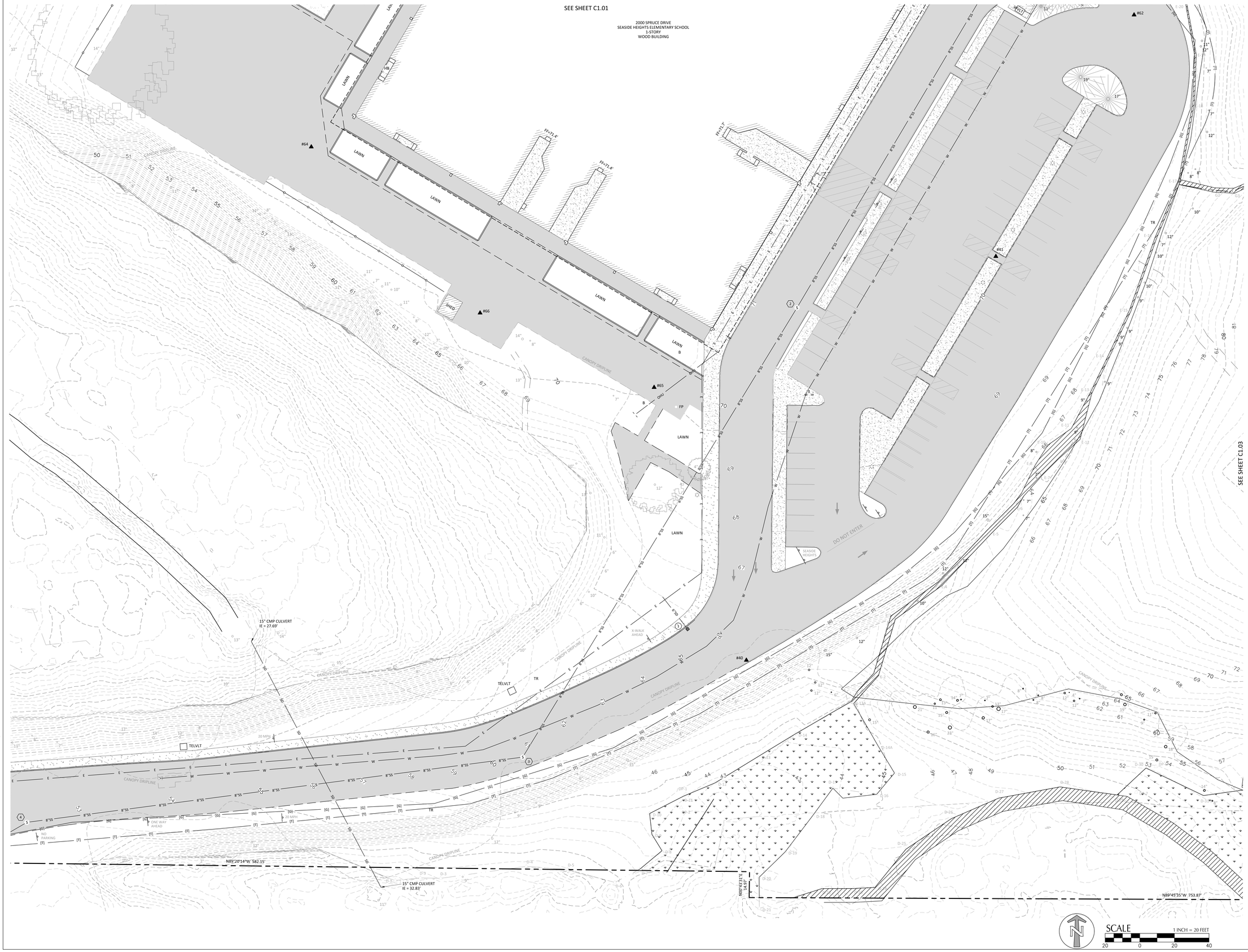
SEE SHEET C1.01

2000 SPRUCE DRIVE
SEASIDE HEIGHTS ELEMENTARY SCHOOL
1-STORY
WOOD BUILDING



SCALE 1 INCH = 20 FEET
20 0 20 40

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C1.02

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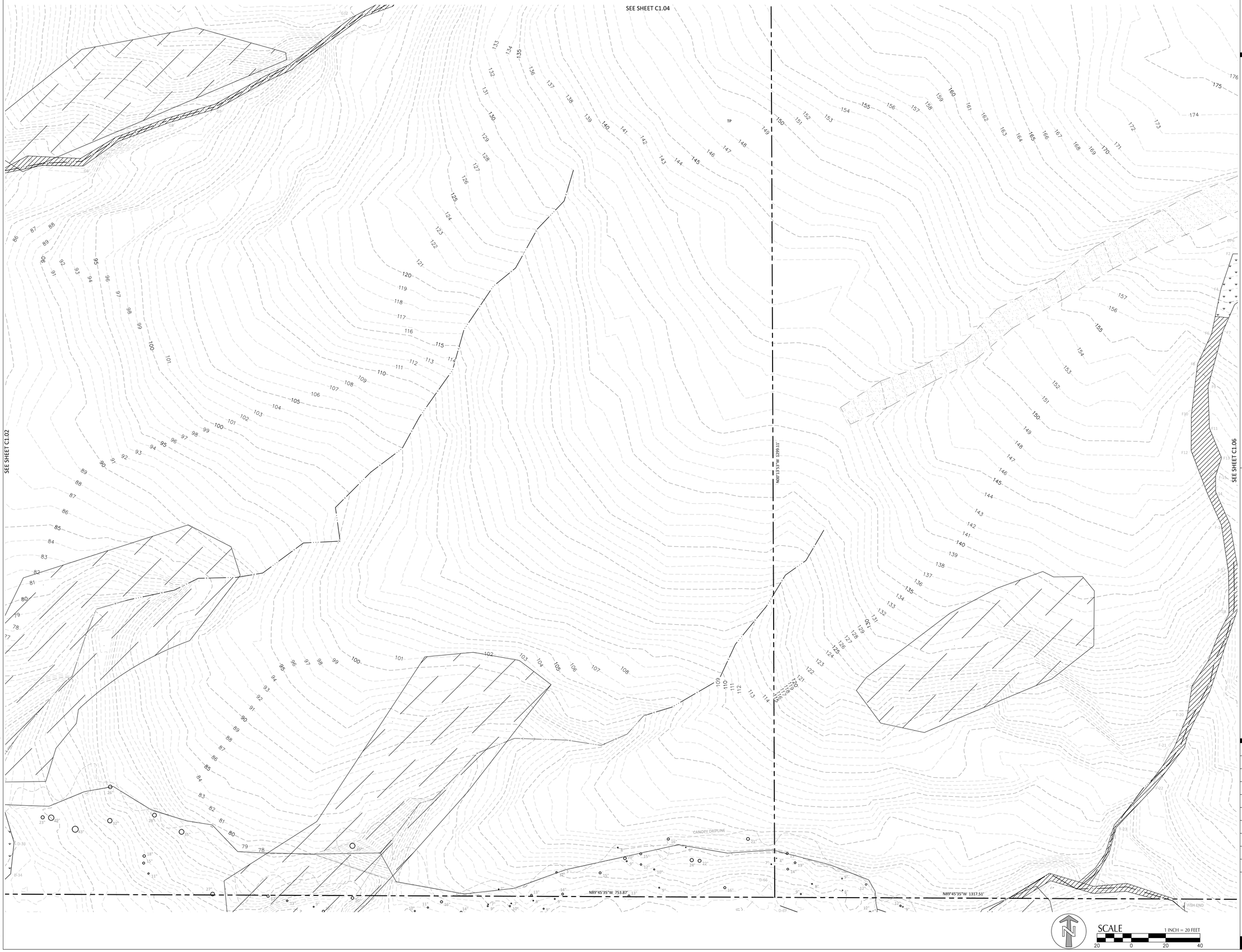

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EXISTING CONDITIONS PLAN

C1.03

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EXISTING CONDITIONS PLAN

C1.04

SCALE 1 INCH = 20 FEET
20 0 20 40

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EXISTING CONDITIONS PLAN

C1.05

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SEE SHEET C1.05

SEE SHEET C1.03

SEE SHEET C1.07

TP

TP

12" CMP CULVERT
PARTIALLY BURIED

12" CMP CULVERT
PARTIALLY BURIED

N89°45'35"W 1317.51'

SCALE 1 INCH = 20 FEET
20 0 20 40

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EXISTING CONDITIONS PLAN

C1.06

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SEE SHEET C1.08

SEE SHEET C1.06

18" PVC CULVERT
IE = 287.17

18" PVC CULVERT
IE = 286.10'

EAST LINE SECTION 22, T6N, R10W, W.M.
S00°23'45"E 1296.04'

N89°45'35"W 1317.51'

S89°42'02"W 1318.57'

CANOPY DRIPLINE

TP

SCALE 1 INCH = 20 FEET
20 0 20 40

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C1.07

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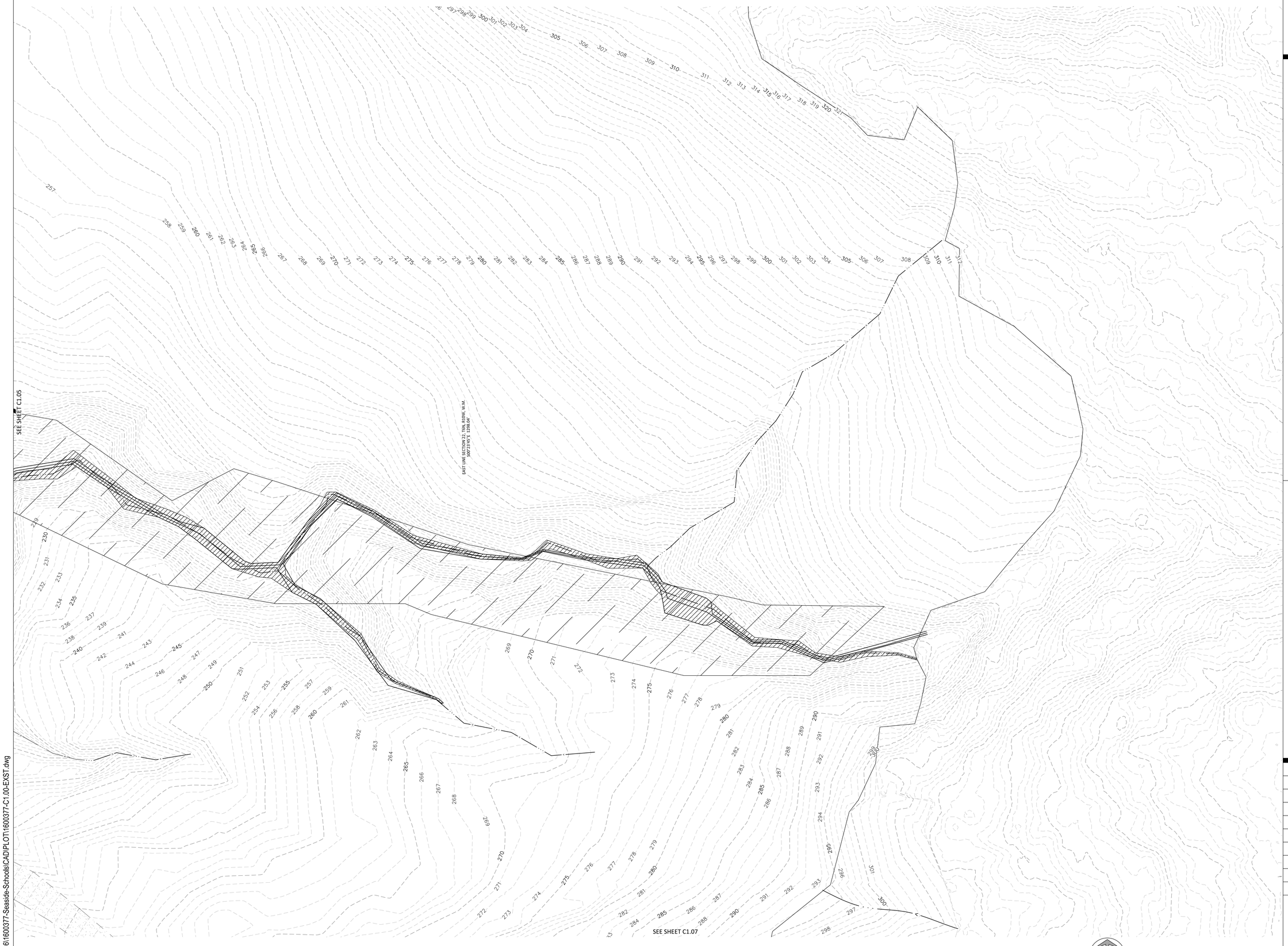

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EXISTING CONDITIONS PLAN

C1.08

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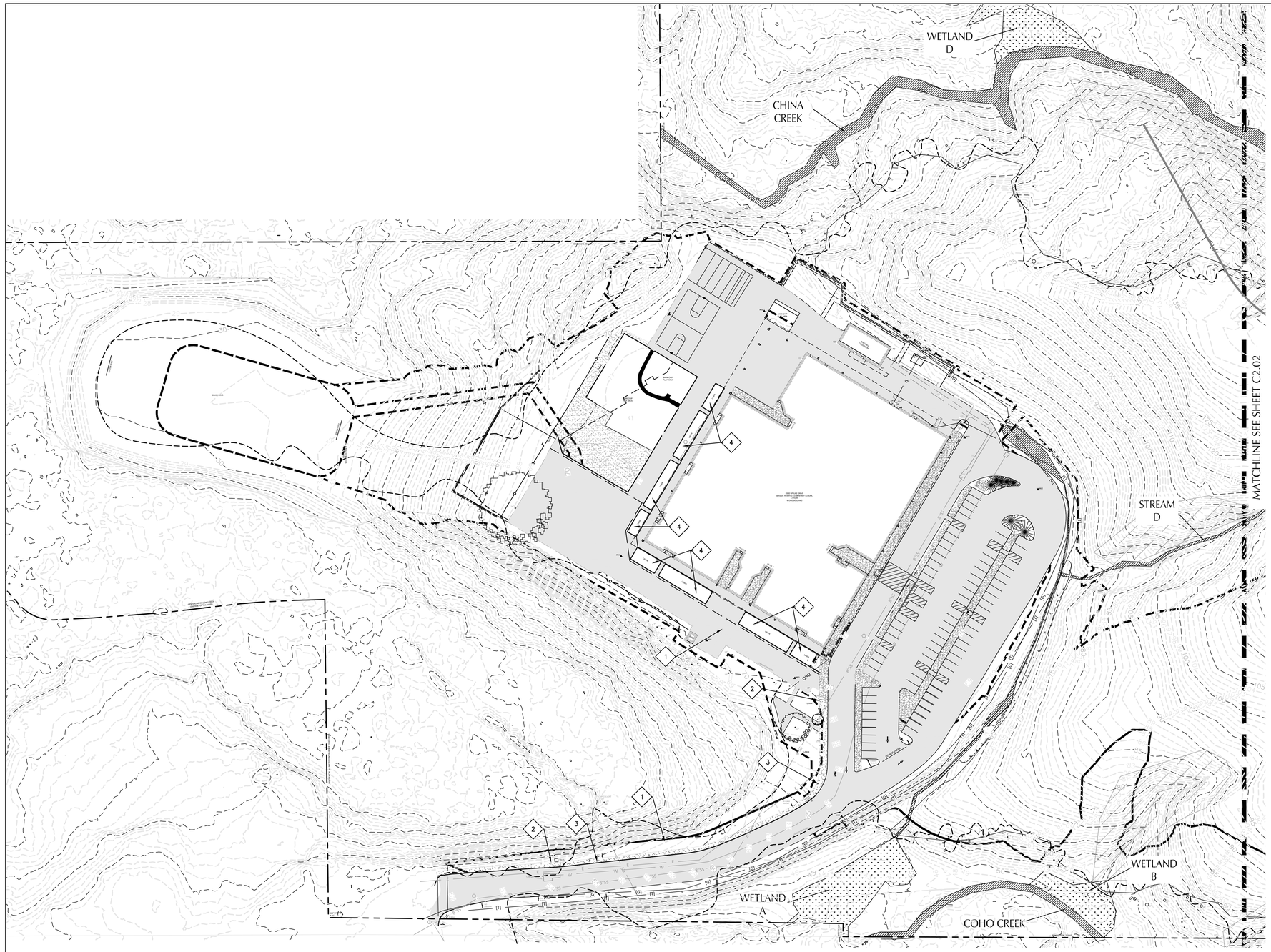


SHEET NOTES

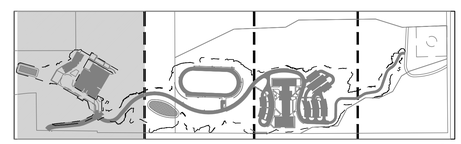
1. CONTRACTOR MAY STAGE WITHIN LIMITS OF DEMOLITION.
2. REMOVE ALL SITE COMPONENTS AND RECYCLE COMPONENTS AS REQUIRED IN THE SPECIFICATIONS.
3. GENERAL DEMOLITION PERMIT SHALL BE SECURED BY THE CONTRACTOR.
4. ALL TRADE LICENSES AND PERMITS NECESSARY FOR THE PROCUREMENT AND COMPLETION OF THE WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING DEMOLITION.
5. THE CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING RIGHT-OF-WAY SURVEY MONUMENTATION DURING DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT BY A LICENSED SURVEYOR OF ANY DAMAGED OR REMOVED MONUMENTS.
6. PROTECT ALL ITEMS ON ADJACENT PROPERTIES AND IN THE RIGHT OF WAY INCLUDING BUT NOT LIMITED TO SIGNAL EQUIPMENT, PARKING METERS, SIDEWALKS, STREET TREES, STREET LIGHTS, CURBS, PAVEMENT AND SIGNS. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGED ITEMS TO ORIGINAL CONDITION.
7. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, AND OTHER FACILITIES IMMEDIATELY ADJACENT TO EXCAVATIONS FROM DAMAGES CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS.
8. SAWCUT STRAIGHT LINES IN SIDEWALK, AS NECESSARY.
9. CONTRACTOR IS RESPONSIBLE TO CONTROL DUST AND MUD DURING THE DEMOLITION PERIOD, AND DURING TRANSPORTATION OF DEMOLITION DEBRIS. ALL STREET SURFACES OUTSIDE THE CONSTRUCTION ZONE MUST BE KEPT CLEAN.
10. ALL EXPOSED PORTIONS OF UNDERGROUND UTILITIES TO BE ABANDONED SHALL BE PLUGGED PER DETAIL X/CXXX.

X DEMOLITION KEY NOTES

#	DESCRIPTION
1	SAWCUTE LINE
2	REMOVE CURB
3	REMOVE CONCRETE SIDEWALK
4	REMOVE GRASSY PLANTER WITH PERIMETER EXTENDED CURB
5	REMOVE CULVERT AND RESTORE CHANNEL GRADING
6	REMOVE LOGGING ROAD

SHEET LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- SAWCUT LINE
- CANOPY DRIP LINE
- EXISTING STREAM
- EXISTING WETLAND



KEY MAP

SCALE 1 INCH = 50 FEET
50 0 50 100

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SITE CLEARING AND STAGING PLAN

C2.01

4/5/2018
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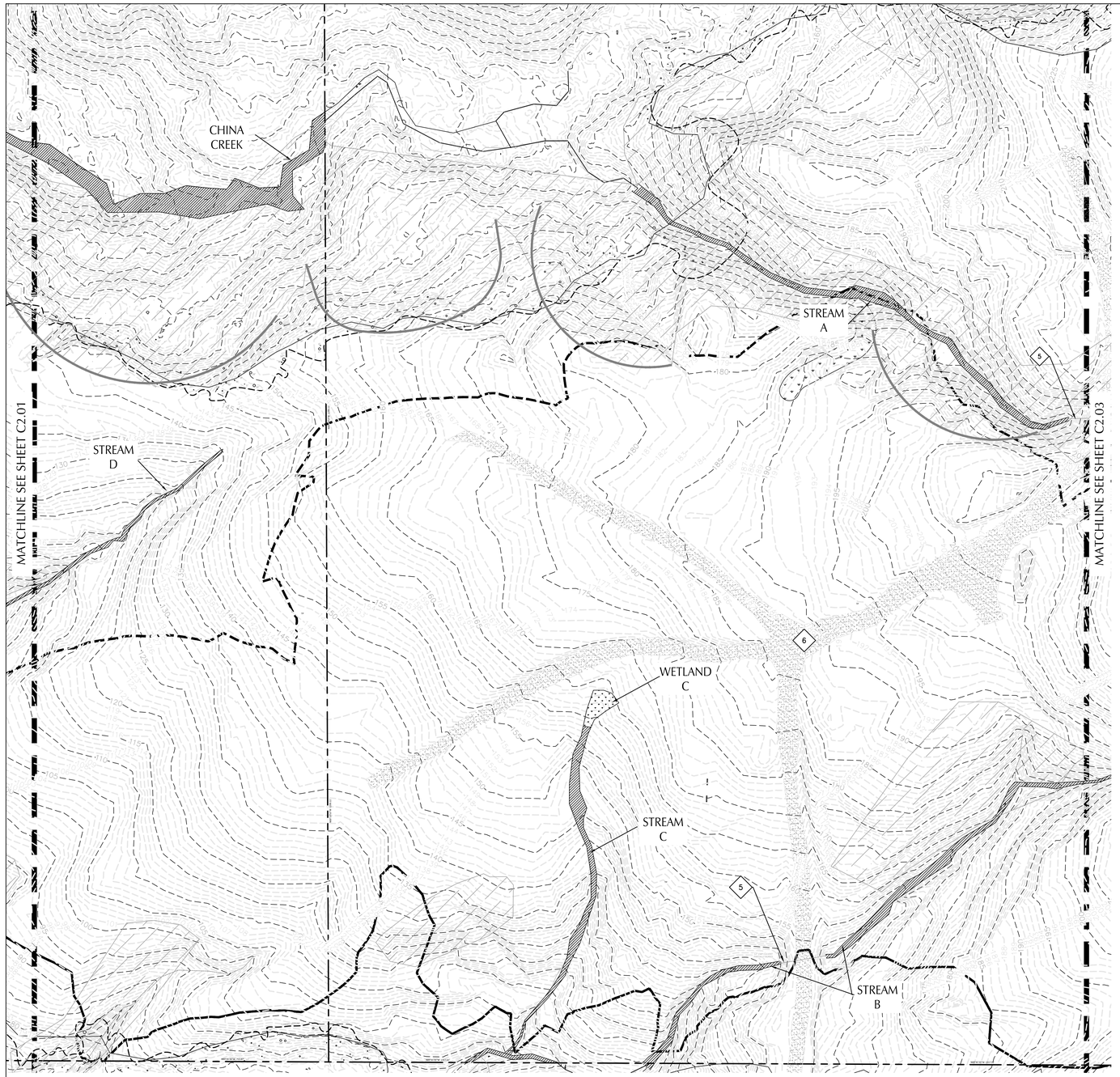

SHEET NOTES

1. CONTRACTOR MAY STAGE WITHIN LIMITS OF DEMOLITION.
2. REMOVE ALL SITE COMPONENTS AND RECYCLE COMPONENTS AS REQUIRED IN THE SPECIFICATIONS.
3. GENERAL DEMOLITION PERMIT SHALL BE SECURED BY THE CONTRACTOR.
4. ALL TRADE LICENSES AND PERMITS NECESSARY FOR THE PROCUREMENT AND COMPLETION OF THE WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING DEMOLITION.
5. THE CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING RIGHT-OF-WAY SURVEY MONUMENTATION DURING DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT BY A LICENSED SURVEYOR OF ANY DAMAGED OR REMOVED MONUMENTS.
6. PROTECT ALL ITEMS ON ADJACENT PROPERTIES AND IN THE RIGHT OF WAY INCLUDING BUT NOT LIMITED TO SIGNAL EQUIPMENT, PARKING METERS, SIDEWALKS, STREET TREES, STREET LIGHTS, CURBS, PAVEMENT AND SIGNS. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGED ITEMS TO ORIGINAL CONDITION.
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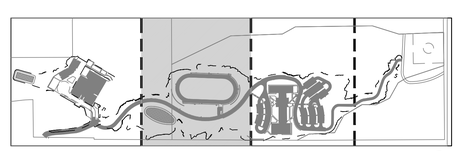
10. ALL EXPOSED PORTIONS OF UNDERGROUND UTILITIES TO BE ABANDONED SHALL BE PLUGGED PER DETAIL X/CXXX.

X DEMOLITION KEY NOTES

#	DESCRIPTION
1	SAWCUTE LINE
2	REMOVE CURB
3	REMOVE CONCRETE SIDEWALK
4	REMOVE GRASSY PLANTER WITH PERIMETER EXTENDED CURB
5	REMOVE CULVERT AND RESTORE CHANNEL GRADING
6	REMOVE LOGGING ROAD

SHEET LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- SAWCUT LINE
- CANOPY DRIP LINE
- EXISTING STREAM
- EXISTING WETLAND



KEY MAP

SCALE 1 INCH = 50 FEET
50 0 50 100

BRIC ARCHITECTURE, INC.
1233 NW NORTHRUP STREET, SUITE 100
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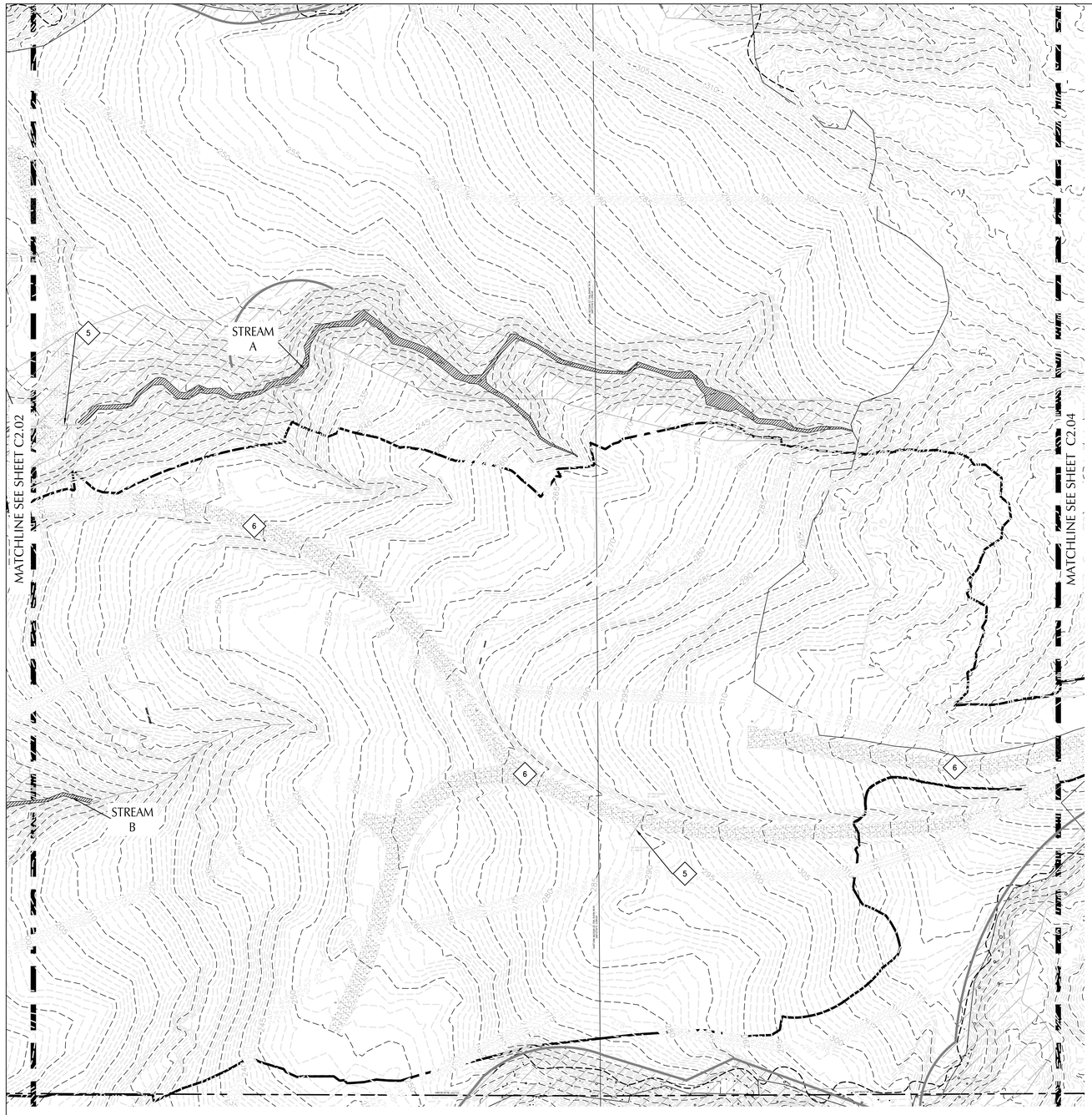
DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

SITE CLEARING AND STAGING PLAN

C2.02

4/5/2018
N:\cip\2016\16003377-Seaside-Schools\CAD\PLOT\16003377-C2.01-SITE CLEARING.dwg



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X DEMOLITION KEY NOTES

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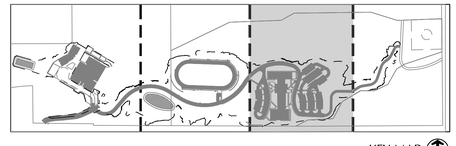
5	REMOVE CULVERT AND RESTORE CHANNEL GRADING
6	REMOVE LOGGING ROAD

SHEET LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- SAWCUT LINE
- CANOPY DRIP LINE
- EXISTING STREAM
- EXISTING WETLAND



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project #	17007

SITE CLEARING AND STAGING PLAN

C2.03

4/5/2018
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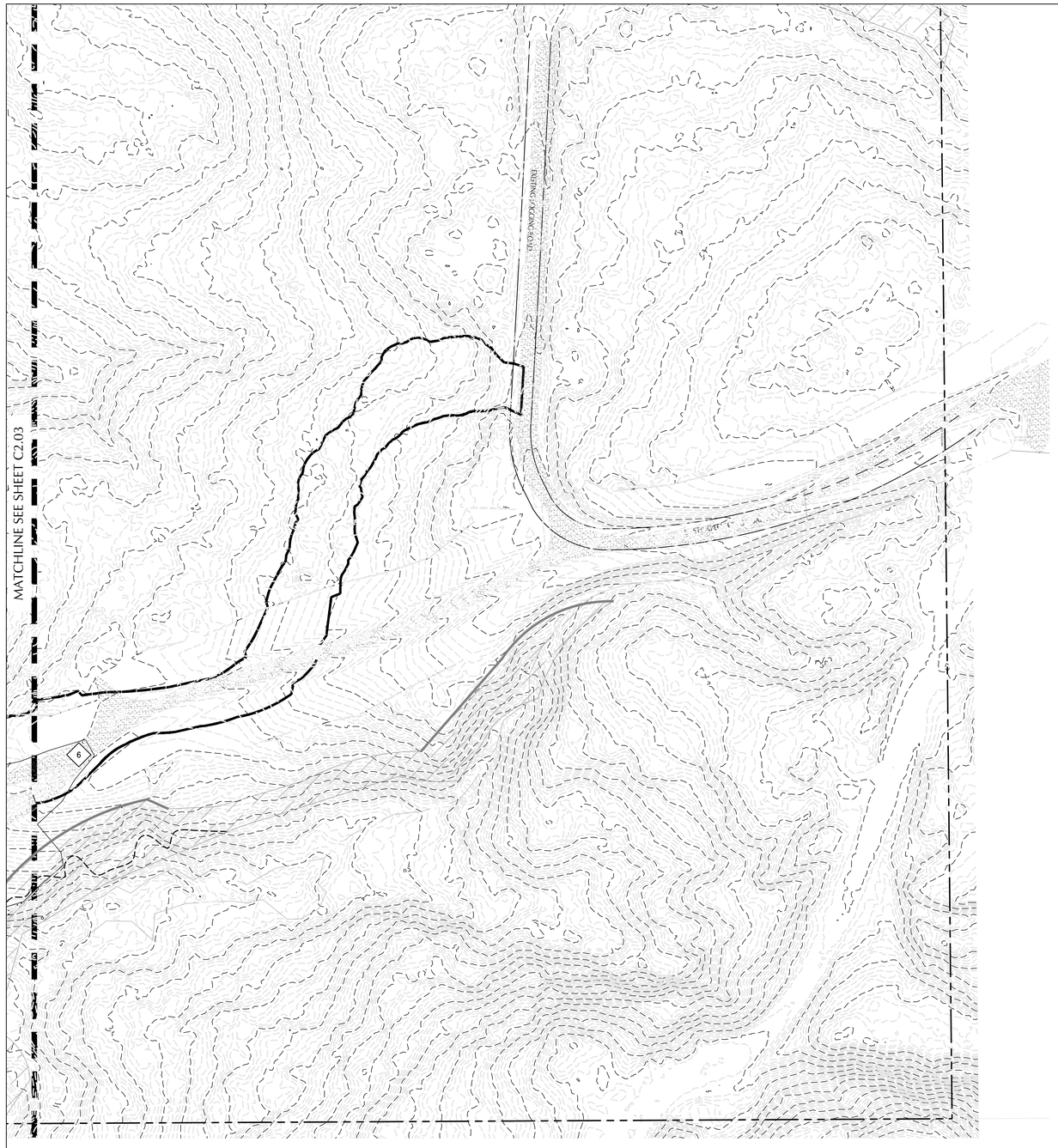

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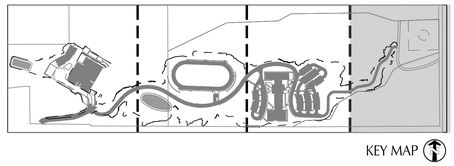
X DEMOLITION KEY NOTES

#	DESCRIPTION
1	SAWCUTE LINE
2	REMOVE CURB
3	REMOVE CONCRETE SIDEWALK
4	REMOVE GRASSY PLANTER WITH PERIMETER EXTENDED CURB
5	REMOVE CULVERT AND RESTORE CHANNEL GRADING
6	REMOVE LOGGING ROAD

SHEET LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- SAWCUT LINE
- CANOPY DRIP LINE
- EXISTING STREAM
- EXISTING WETLAND



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SITE CLEARING AND STAGING PLAN

C2.04

4/5/2018
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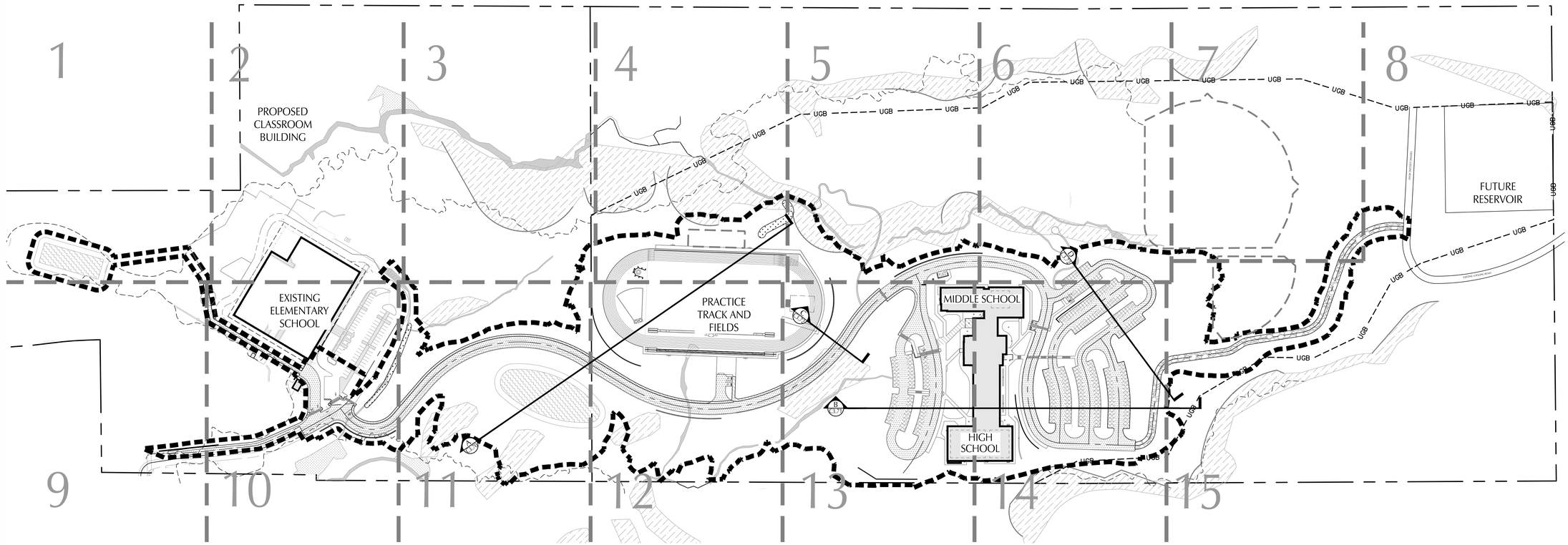

SHEET LEGEND

- PROPERTY LINE
- UGB — PROPERTY LINE
- LIMITS OF WORK
- CENTERLINE ROADWAY
- PROPOSED BUILDING
- ASPHALT PAVEMENT: LIGHT DUTY — (X/CX)
- ASPHALT PAVEMENT: HEAVY DUTY — (X/CX)
- CONCRETE PAVEMENT — (X/CX)
- EXTENDED DRY BASIN
- GRAVEL — (X/CX)

SCALE 1 INCH = 120 FEET
120 0 120 240

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OVERALL SITE AND PAVING PLAN

C3.00

4/5/2018
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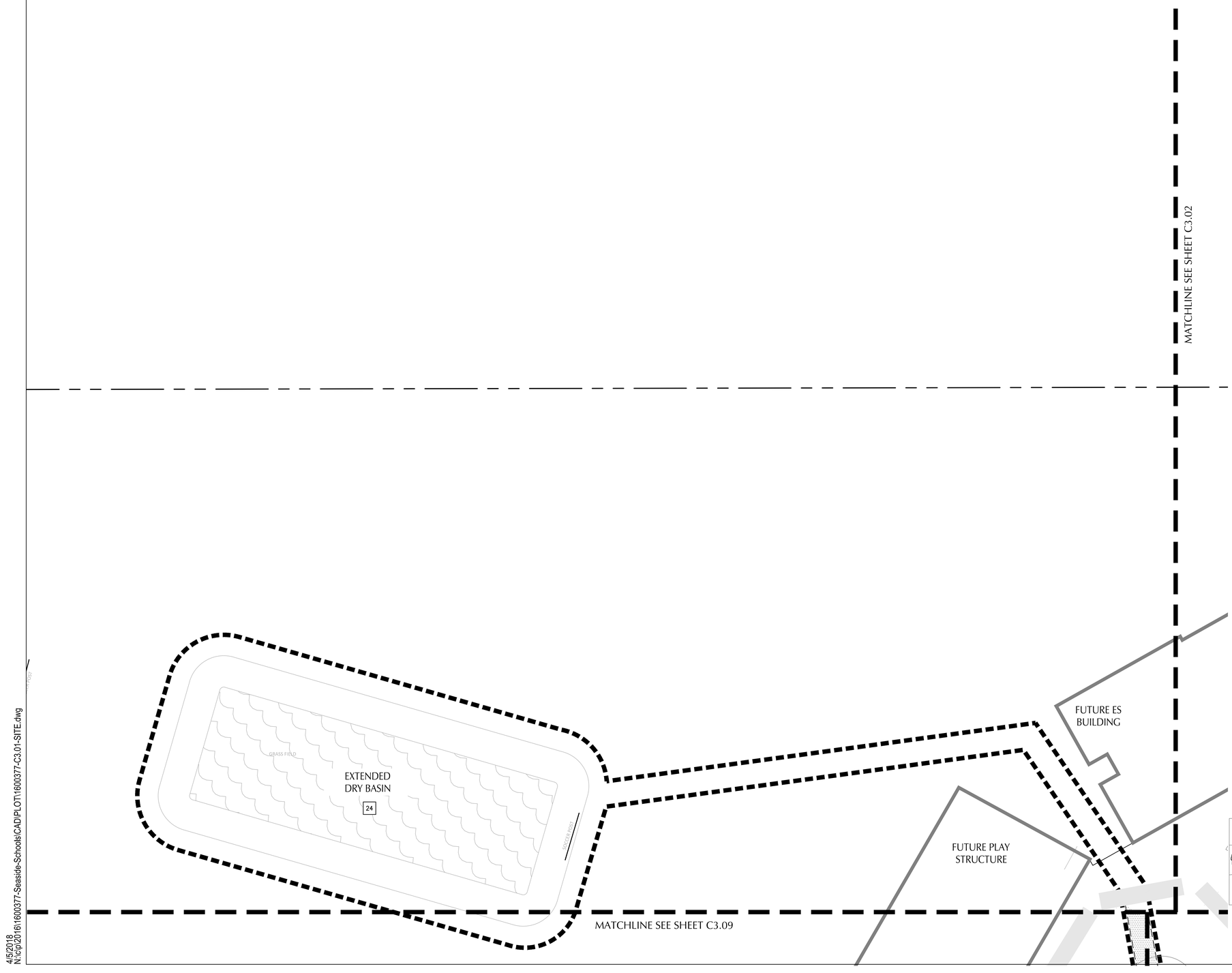


MATCHLINE SEE SHEET C3.02

X KEY NOTES

1 STANDARD CURB — X/C1
2 STANDARD CURB AND GUTTER — X/C1
3 MOUNTABLE CURB — X/C1
4 PEDESTRIAN CONCRETE SIDEWALK – SEE LANDSCAPE PLANS — X/C1
5 FLUSH CURB — X/C1
6 CONCRETE CURB ENDING — X/C1
7 INSTALL CURB RAMP — X/C1
8 HEAVY MOUNTABLE CURB AND SIDEWALK – MONOLITHIC — X/C1
9 WHEEL STOP — X/C1
10 ADA PARKING STALLS AND STRIPING — X/C1
11 4" WHITE STRIPE
12 CROSSWALK STRIPING AND CONCRETE PAVEMENT — X/C1
13 GENERATOR AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.
14 TRANSFORMER AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.
15 SERVICE YARD WITH CMU SCREEN WALL – SEE ARCHITECTURAL PLANS
16 SEE SHEET C5.XX SERIES FOR SITE RETAINING WALLS
17 COORDINATE BUILDING GRID LINE LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION
18 SEE SHEET C3.21 THROUGH C3.53 FOR ROADWAY CENTERLINE ALIGNMENTS AND ROAD PROFILES.
19 PRACTICE TRACK AND FIELD – SEE LANDSCAPE PLANS
20 BOLLARD – SEE LANDSCAPE PLANS
21 LIGHT POLE – SEE LANDSCAPE PLANS
22 MONUMENT SIGN – SEE ARCHITECTURAL PLANS.
23 PAINTED CURB OR FIRE LINE — X/C1
24 STORM FACILITY. SEE SHEET C6.00 SERIES
25 SEE LANDSCAPE PLANS FOR FENCING, HAND/GUARD RAILS, AND GATES
26 BIKE PARKING RACKS – SEE LANDSCAPE PLANS
27 STAIR SEE LANDSCAPE PLANS
28 DRIVEWAY ACCESS
29 SEE LANDSCAPE PLANS FOR GENERAL PLANTING AND LANDSCAPING
30 PEDESTRIAN CROSSWALK STRIPING — X/C1

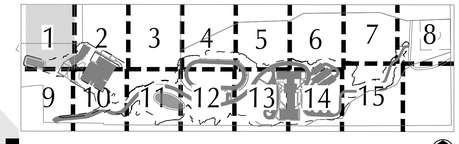
SHEET NOTES

1. IF ROADWAY CURB CURVE INFORMATION IS NOT PROVIDED, CURB LOCATION IS EVENLY OFFSET FROM ROADWAY CENTERLINE. SEE SHEET C3.20 FOR ROADWAY ALIGNMENT PLAN.
2. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
3. SEE SHEET C0.01 FOR ADDITIONAL CONSTRUCTION NOTES AND LEGEND INFORMATION.
4. SEE LANDSCAPE PLANS FOR PLANTING AND ADDITIONAL SITE FEATURES.
5. COORDINATE FINAL PAVING AND CURBS AT DRIVEWAY ENTRIES WITH FUTURE RIGHT-OF-WAY IMPROVEMENTS.
6. BUILDING LAYOUT REFER TO ARCHITECTURAL AND LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
7. SEE C5.00 SERIES FOR RETAINING WALL LAYOUT.

SHEET LEGEND

PROPERTY LINE
UGB — URBAN GROWTH BOUNDARY LINE
LIMITS OF WORK
PROPOSED FENCE (SEE LANDSCAPE PLANS)
CENTERLINE ROADWAY
STANDARD CURB
SAWCUT
CANOPY DRIP LINE
PROPOSED BUILDING
ASPHALT PAVEMENT: LIGHT DUTY — X/C1
ASPHALT PAVEMENT: HEAVY DUTY — X/C1
CONCRETE PAVEMENT — X/C1
EXTENDED DRY BASIN
GRAVEL — X/C1

C	COMPACT PARKING STALLS
LT	LEFT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
R	RADIUS
RT	RIGHT
(RX)	SEE SHEET C3.16 ROAD CENTERLINE RADIUS TABLE



KEY MAP

N

SCALE 1 INCH = 20 FEET
20 0 20 40

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phase	Bid Package 1
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SITE PLAN

C3.01

4/5/2018
N:\clp\2016\16\00377-Seaside-Schools\CAD\PLOT\16\00377-C3.01-SITE.dwg

MATCHLINE SEE SHEET C3.01

FUTURE ES BUILDING

EXISTING ELEMTARY SCHOOL

20.00' Fireline

MATCHLINE SEE SHEET C3.10

MATCHLINE SEE SHEET C3.03

X KEY NOTES

1 STANDARD CURB — X/C1
2 STANDARD CURB AND GUTTER — X/C1
3 MOUNTABLE CURB — X/C1
4 PEDESTRIAN CONCRETE SIDEWALK – SEE LANDSCAPE PLANS — X/C1
5 FLUSH CURB — X/C1
6 CONCRETE CURB ENDING — X/C1
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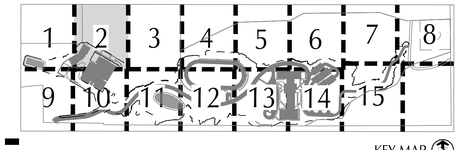

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SITE PLAN

C3.02

4/5/2018
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MATCHLINE SEE SHEET C3.02

MATCHLINE SEE SHEET C3.04

MATCHLINE SEE SHEET C3.11

UGB

X KEY NOTES

1 STANDARD CURB (X/C1)
2 STANDARD CURB AND GUTTER (X/C1)
3 MOUNTABLE CURB (X/C1)
4 PEDESTRIAN CONCRETE SIDEWALK – SEE LANDSCAPE PLANS (X/C1)
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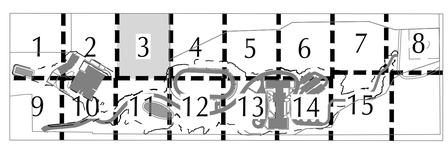
7. SEE C5.00 SERIES FOR RETAINING WALL LAYOUT.

SHEET LEGEND

PROPERTY LINE
UGB — URBAN GROWTH BOUNDARY LINE
LIMITS OF WORK
PROPOSED FENCE (SEE LANDSCAPE PLANS)
CENTERLINE ROADWAY
STANDARD CURB
SAWCUT
CANOPY DRIP LINE
PROPOSED BUILDING
ASPHALT PAVEMENT: LIGHT DUTY (X/C1)
ASPHALT PAVEMENT: HEAVY DUTY (X/C1)
CONCRETE PAVEMENT (X/C1)
EXTENDED DRY BASIN
GRAVEL (X/C1)

C	COMPACT PARKING STALLS
LT	LEFT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
R	RADIUS
RT	RIGHT
(RX)	SEE SHEET C3.16 ROAD CENTERLINE RADIUS TABLE



KEY MAP

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

SITE PLAN

C3.03

4/5/2018
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MATCHLINE SEE SHEET C3.03

MATCHLINE SEE SHEET C3.05

UGB

CANOPY DRIP LINE

FUTURE
BLEACHER
LOCATION

21 FL

29

19

MATCHLINE SEE SHEET C3.12

X KEY NOTES

1 STANDARD CURB (X, C1)
2 STANDARD CURB AND GUTTER (X, C1)
3 MOUNTABLE CURB (X, C1)
4 PEDESTRIAN CONCRETE SIDEWALK – SEE LANDSCAPE PLANS (X, C1)
5 FLUSH CURB (X, C1)
6 CONCRETE CURB ENDING (X, C1)
7 INSTALL CURB RAMP (X, C1)
8 HEAVY MOUNTABLE CURB AND SIDEWALK – MONOLITHIC (X, C1)
9 WHEEL STOP (X, C1)
10 ADA PARKING STALLS AND STRIPING (X, C1)
11 4" WHITE STRIPE
12 CROSSWALK STRIPING AND CONCRETE PAVEMENT (X, C1)
13 GENERATOR AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.
14 TRANSFORMER AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.
15 SERVICE YARD WITH CMU SCREEN WALL – SEE ARCHITECTURAL PLANS
16 SEE SHEET C5.XX SERIES FOR SITE RETAINING WALLS
17 COORDINATE BUILDING GRID LINE LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION
18 SEE SHEET C3.21 THROUGH C3.53 FOR ROADWAY CENTERLINE ALIGNMENTS AND ROAD PROFILES.
19 PRACTICE TRACK AND FIELD – SEE LANDSCAPE PLANS
20 BOLLARD – SEE LANDSCAPE PLANS
21 LIGHT POLE – SEE LANDSCAPE PLANS
22 MONUMENT SIGN – SEE ARCHITECTURAL PLANS.
23 PAINTED CURB OR FIRE LINE (X, C1)
24 STORM FACILITY. SEE SHEET C6.00 SERIES
25 SEE LANDSCAPE PLANS FOR FENCING, HAND/GUARD RAILS, AND GATES
26 BIKE PARKING RACKS – SEE LANDSCAPE PLANS
27 STAIR SEE LANDSCAPE PLANS
28 DRIVEWAY ACCESS
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30 PEDESTRIAN CROSSWALK STRIPING (X, C1)

SHEET NOTES

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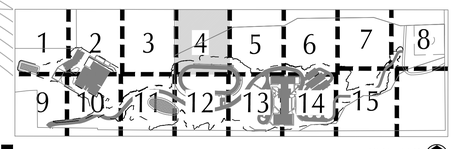

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project #	17007

SITE PLAN

C3.04

4/5/2018
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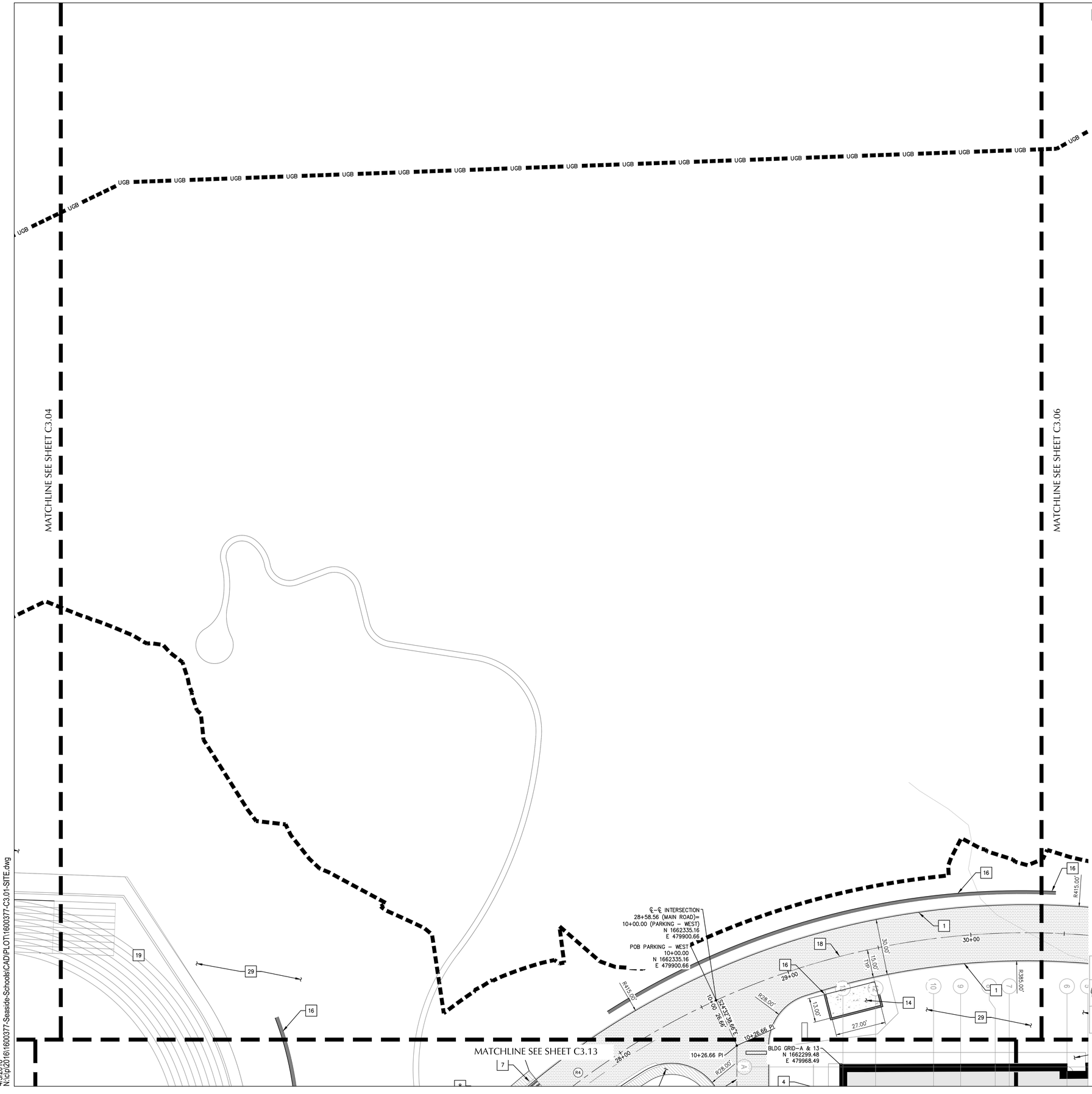

KEY NOTES

1. STANDARD CURB
2. STANDARD CURB AND GUTTER
3. MOUNTABLE CURB
4. PEDESTRIAN CONCRETE SIDEWALK – SEE LANDSCAPE PLANS
5. FLUSH CURB
6. CONCRETE CURB ENDING
7. INSTALL CURB RAMP
8. HEAVY MOUNTABLE CURB AND SIDEWALK – MONOLITHIC
9. WHEEL STOP
10. ADA PARKING STALLS AND STRIPING
11. 4" WHITE STRIPE
12. CROSSWALK STRIPING AND CONCRETE PAVEMENT
13. GENERATOR AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.
14. TRANSFORMER AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.
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20. BOLLARD – SEE LANDSCAPE PLANS
21. LIGHT POLE – SEE LANDSCAPE PLANS
22. MONUMENT SIGN – SEE ARCHITECTURAL PLANS.
23. PAINTED CURB OR FIRE LINE
24. STORM FACILITY. SEE SHEET C6.00 SERIES
25. SEE LANDSCAPE PLANS FOR FENCING, HAND/GUARD RAILS, AND GATES
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27. STAIR SEE LANDSCAPE PLANS
28. DRIVEWAY ACCESS
29. SEE LANDSCAPE PLANS FOR GENERAL PLANTING AND LANDSCAPING
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SHEET LEGEND

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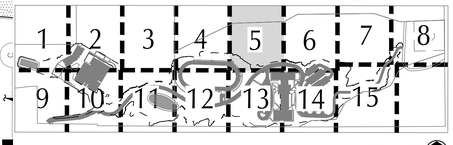

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

SITE PLAN

C3.05

4/5/2018
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UGB

MATCHLINE SEE SHEET C3.05

MATCHLINE SEE SHEET C3.07

FUTURE SPORTS FIELD

MATCHLINE SEE SHEET C3.14

POE PARKING – EAST
18+53.20
N 1662268.80
E 480259.82

POE PARKING – EAST

31+00

31+57.09 PCC

17+01.39 RT 30.00'

17+96.39 RT 30.00'

18+12.19 PC

16+83.35 PT T

16+39.68 PC

17+00

16+94.78
LT 30.00'

16+23.08
LT 29.75'

15+52.82 PT
15+52.82 PT

N63°41'01.97"W
86.86'

S53°46'09.32"W
128.85'

R415.00'
R395.00'
R385.00'
R115.00'
R85.00'
R52.00'
R3.00'
R128.00'
R10.00'
R5.00'
R54.00'

KEY NOTES

X

1 STANDARD CURB — X/C1
2 STANDARD CURB AND GUTTER — X/C1
3 MOUNTABLE CURB — X/C1
4 PEDESTRIAN CONCRETE SIDEWALK – SEE LANDSCAPE PLANS — X/C1
5 FLUSH CURB — X/C1
6 CONCRETE CURB ENDING — X/C1
7 INSTALL CURB RAMP — X/C1
8 HEAVY MOUNTABLE CURB AND SIDEWALK – MONOLITHIC — X/C1
9 WHEEL STOP — X/C1
10 ADA PARKING STALLS AND STRIPING — X/C1
11 4" WHITE STRIPE
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KEY MAP

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4/5/2018
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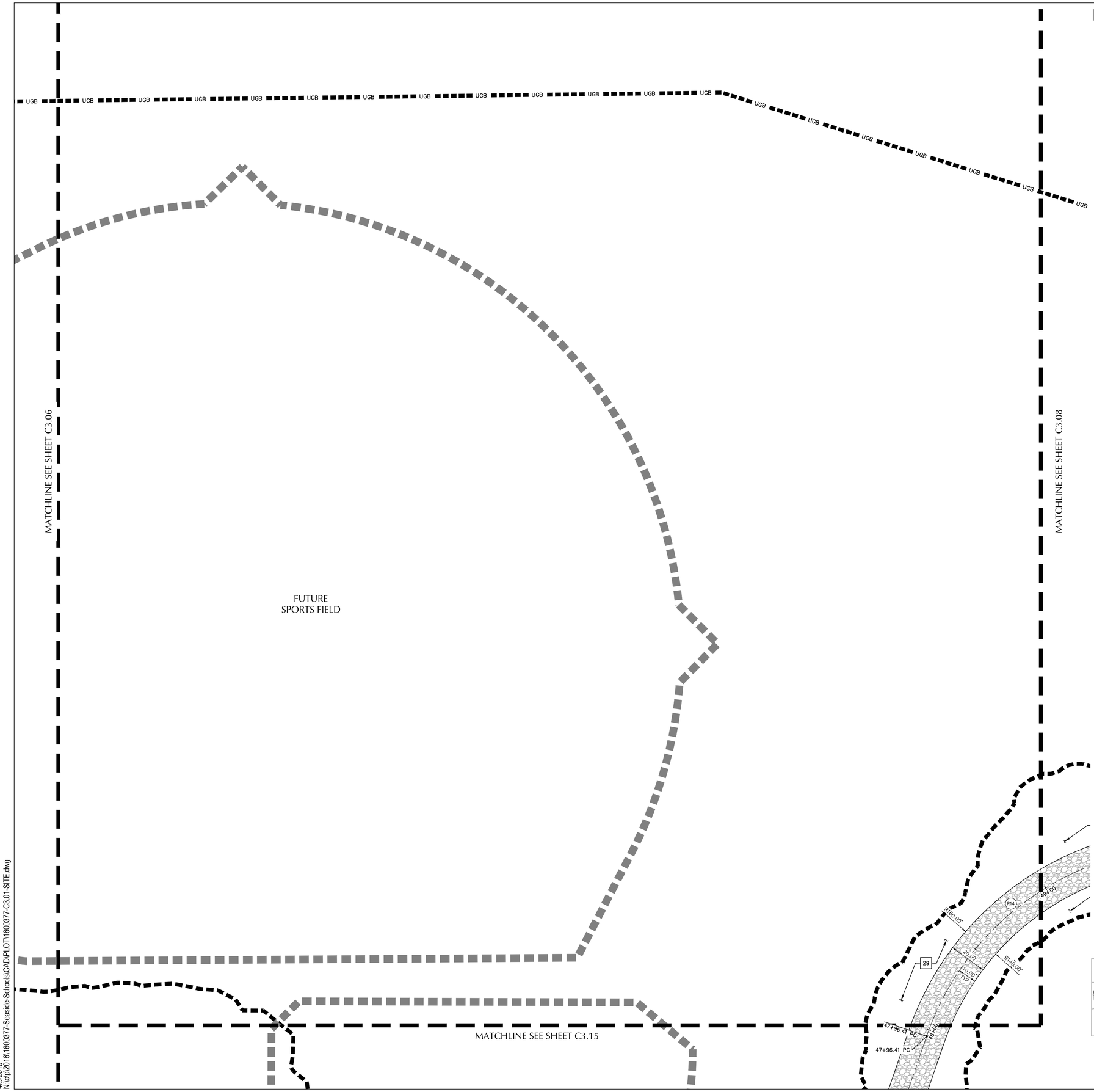
phase | Bid Package 1
date | 4/5/2018
revisions |
project # | 17007

SITE PLAN

C3.06



X KEY NOTES

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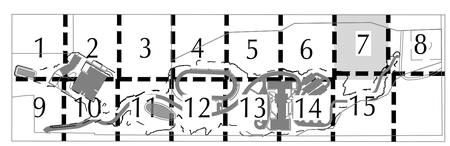

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SITE PLAN

C3.07

4/5/2018
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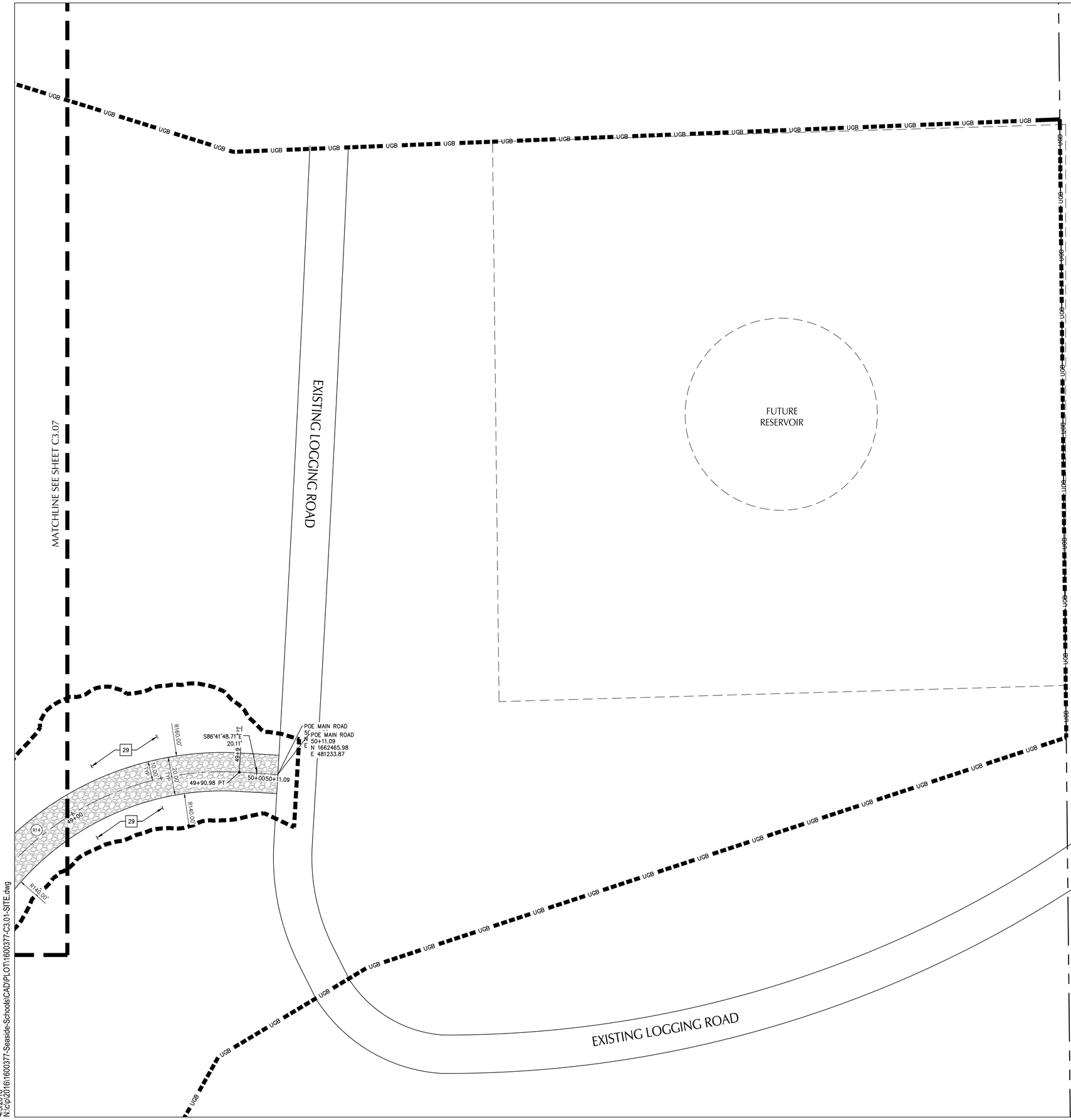

KEY NOTES

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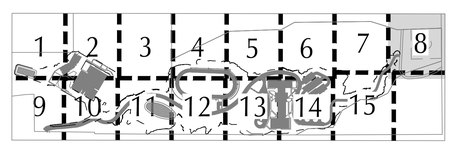
CONCRETE PAVEMENT (X, CX)
EXTENDED DRY BASIN
GRAVEL (X, CX)

C	COMPACT PARKING STALLS
LT	LEFT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
R	RADIUS
RT	RIGHT
(RX)	SEE SHEET C3.16 ROAD CENTERLINE RADIUS TABLE



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

BRIC ARCHITECTURE, INC.
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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

SITE PLAN

C3.08

4/5/2018
N:\cip\2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C3.01-SITE.dwg

MATCHLINE SEE SHEET C3.01

MATCHLINE SEE SHEET C3.10

KEY NOTES

1 STANDARD CURB — X/C1
2 STANDARD CURB AND GUTTER — X/C1
3 MOUNTABLE CURB — X/C1
4 PEDESTRIAN CONCRETE SIDEWALK – SEE LANDSCAPE PLANS — X/C1
5 FLUSH CURB — X/C1
6 CONCRETE CURB ENDING — X/C1
7 INSTALL CURB RAMP — X/C1
8 HEAVY MOUNTABLE CURB AND SIDEWALK – MONOLITHIC — X/C1
9 WHEEL STOP — X/C1
10 ADA PARKING STALLS AND STRIPING — X/C1
11 4" WHITE STRIPE
12 CROSSWALK STRIPING AND CONCRETE PAVEMENT — X/C1
13 GENERATOR AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.
14 TRANSFORMER AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.
15 SERVICE YARD WITH CMU SCREEN WALL – SEE ARCHITECTURAL PLANS
16 SEE SHEET C5.XX SERIES FOR SITE RETAINING WALLS
17 COORDINATE BUILDING GRID LINE LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION
18 SEE SHEET C3.21 THROUGH C3.53 FOR ROADWAY CENTERLINE ALIGNMENTS AND ROAD PROFILES.
19 PRACTICE TRACK AND FIELD – SEE LANDSCAPE PLANS
20 BOLLARD – SEE LANDSCAPE PLANS
21 LIGHT POLE – SEE LANDSCAPE PLANS
22 MONUMENT SIGN – SEE ARCHITECTURAL PLANS.
23 PAINTED CURB OR FIRE LINE — X/C1
24 STORM FACILITY. SEE SHEET C6.00 SERIES
25 SEE LANDSCAPE PLANS FOR FENCING, HAND/GUARD RAILS, AND GATES
26 BIKE PARKING RACKS – SEE LANDSCAPE PLANS
27 STAIR SEE LANDSCAPE PLANS
28 DRIVEWAY ACCESS
29 SEE LANDSCAPE PLANS FOR GENERAL PLANTING AND LANDSCAPING
30 PEDESTRIAN CROSSWALK STRIPING — X/C1

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SHEET LEGEND

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LIMITS OF WORK
PROPOSED FENCE (SEE LANDSCAPE PLANS)
CENTERLINE ROADWAY
STANDARD CURB
SAWCUT
CANOPY DRIP LINE
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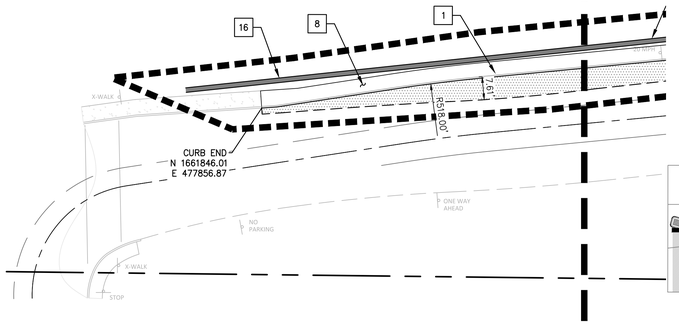

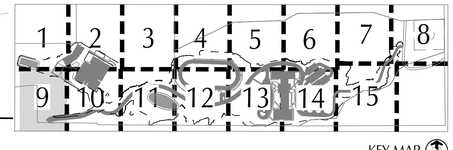

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

SITE PLAN

C3.09

4/5/2018
N:\clp\2016\16\600377-Seaside-Schools\CAD\PLOT\1600377-C3.01-SITE.dwg

MATCHLINE SEE SHEET C3.02

MATCHLINE SEE SHEET C3.09

MATCHLINE SEE SHEET C3.11

EXISTING ELEMENTARY SCHOOL

CURB END
N 1662123.75
E 478268.30

TYP.

CURB END
N 1662108.51
E 478293.94

CURB END
N 1662105.42
E 478302.72

CURB END
N 1662092.63
E 478234.29

CURB END
N 1662073.59
E 478286.07

CURB END
N 1662059.99
E 478214.84

CURB END
N 1662012.40
E 478333.05

CURB END
N 1662005.79
E 478324.62

CURB END
N 1661992.08
E 478283.38

CURB END
N 1661967.71
E 478244.24

POB MAIN ROAD
10+00.00
N 1661968.71
E 478327.24

10+13.07 LT 40.68'

10+29.56 PC

10+29.56 PC

11+86.99 PT

11+00

6 10+02.27 RT 122.95'

R34.00'
R10.00'
R5.00'
R5.00'
R68.00'
R40.00'
28.00'
R2.00'
R3.00'
R5.00'
R12.00'
R3.00'
R25.00'
10+00.00
29.56'
S75°53'33"E
R50.00'
35.00'
R74.00'
R30.00'
R104.00'
86.99'
12.00'
10.00'
15.00'
6.50'
14.95'
R132.00'
6.57'
20 MPH

BUSES ONLY

BUS PARKING ONLY

PEDESTRIAN CROSSWALK AHEAD

KEY NOTES

1	STANDARD CURB	X, CX
2	STANDARD CURB AND GUTTER	X, CX
3	MOUNTABLE CURB	X, CX
4	PEDESTRIAN CONCRETE SIDEWALK – SEE LANDSCAPE PLANS	X, CX
5	FLUSH CURB	X, CX
6	CONCRETE CURB ENDING	X, CX
7	INSTALL CURB RAMP	X, CX
8	HEAVY MOUNTABLE CURB AND SIDEWALK – MONOLITHIC	X, CX
9	WHEEL STOP	X, CX
10	ADA PARKING STALLS AND STRIPING	X, CX
11	4" WHITE STRIPE	
12	CROSSWALK STRIPING AND CONCRETE PAVEMENT	X, CX
13	GENERATOR AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.	
14	TRANSFORMER AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.	
15	SERVICE YARD WITH CMU SCREEN WALL – SEE ARCHITECTURAL PLANS	
16	SEE SHEET C5.XX SERIES FOR SITE RETAINING WALLS	
17	COORDINATE BUILDING GRID LINE LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION	
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19	PRACTICE TRACK AND FIELD – SEE LANDSCAPE PLANS	
20	BOLLARD – SEE LANDSCAPE PLANS	
21	LIGHT POLE – SEE LANDSCAPE PLANS	
22	MONUMENT SIGN – SEE ARCHITECTURAL PLANS.	
23	PAINTED CURB OR FIRE LINE	X, CX
24	STORM FACILITY. SEE SHEET C6.00 SERIES	
25	SEE LANDSCAPE PLANS FOR FENCING, HAND/GUARD RAILS, AND GATES	
26	BIKE PARKING RACKS – SEE LANDSCAPE PLANS	
27	STAIR SEE LANDSCAPE PLANS	
28	DRIVEWAY ACCESS	
29	SEE LANDSCAPE PLANS FOR GENERAL PLANTING AND LANDSCAPING	
30	PEDESTRIAN CROSSWALK STRIPING	X, CX

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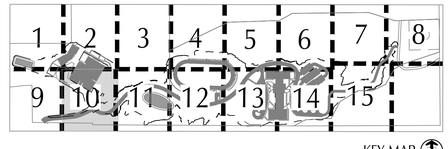

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phase	Bid Package 1
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revisions	
project #	17007

SITE PLAN

C3.10

4/5/2018
N:\clp\2016\16003377-Seaside-Schools\CAD\PLOT\16003377-C3.01-SITE.dwg

MATCHLINE SEE SHEET C3.03

MATCHLINE SEE SHEET C3.10

MATCHLINE SEE SHEET C3.12

R350.00'

R320.00'

6.00'

15.00'

30.00'

17°

15+00

16+00

17+00

18+00

17+80.55 PT

17+80.55 PT

13+08.55 PC

13+08.55 PC

13+00

30.00'

N40°27'28.82"E

121.55'

PT

88.89'

12.00

EXTENDED
DRY BASIN

24

X KEY NOTES

1 STANDARD CURB (X/C1)
2 STANDARD CURB AND GUTTER (X/C1)
3 MOUNTABLE CURB (X/C1)
4 PEDESTRIAN CONCRETE SIDEWALK – SEE LANDSCAPE PLANS (X/C1)
5 FLUSH CURB (X/C1)
6 CONCRETE CURB ENDING (X/C1)
7 INSTALL CURB RAMP (X/C1)
8 HEAVY MOUNTABLE CURB AND SIDEWALK – MONOLITHIC (X/C1)
9 WHEEL STOP (X/C1)
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12 CROSSWALK STRIPING AND CONCRETE PAVEMENT (X/C1)
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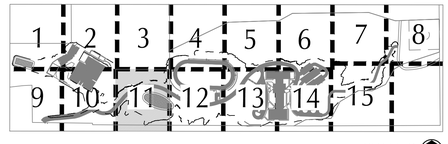

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phase	Bid Package 1
date	4/5/2018
revisions	
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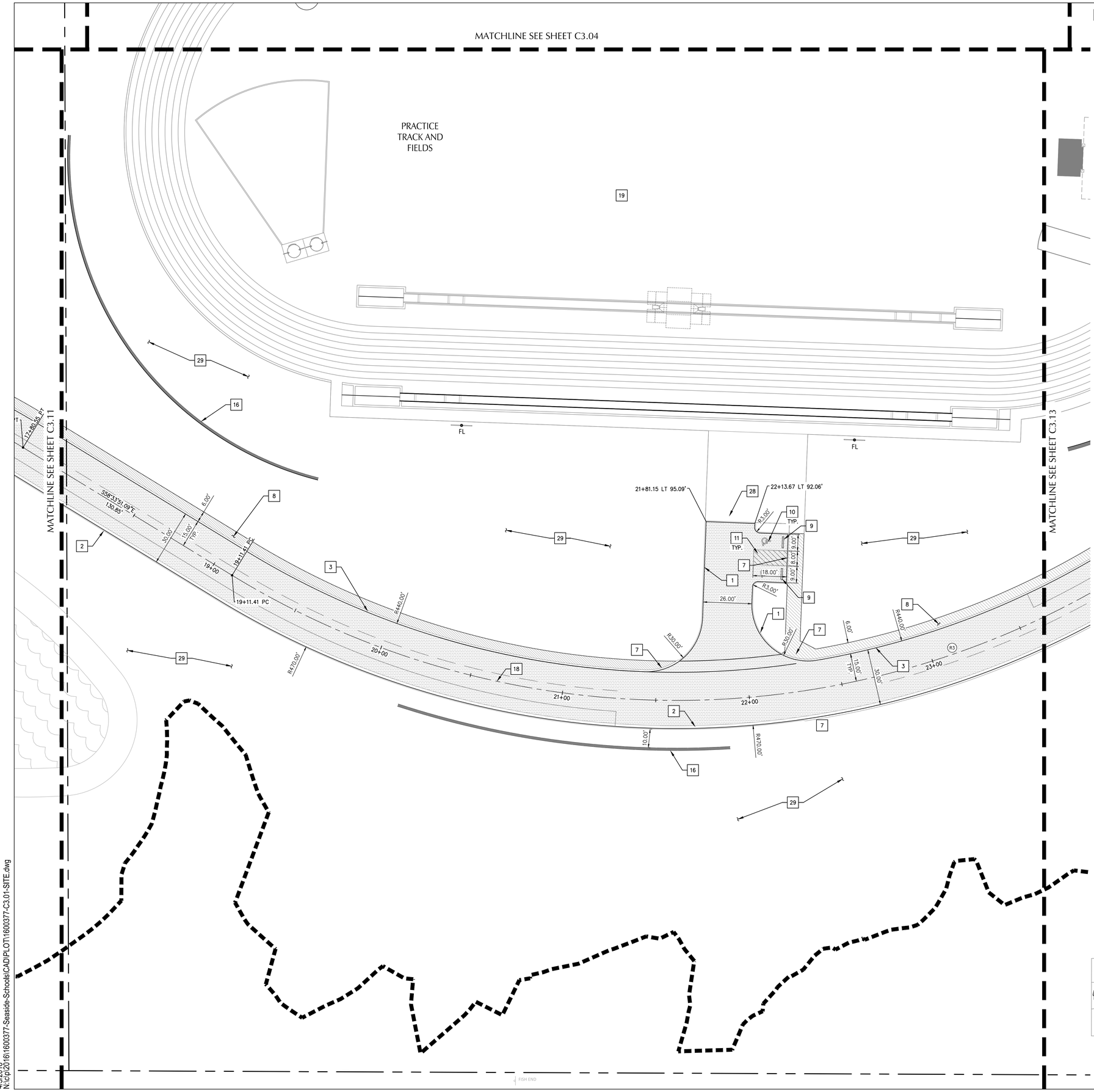
SITE PLAN

C3.11

4/5/2018
N:\cip\2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C3.01-SITE.dwg



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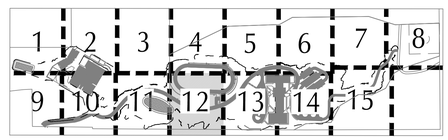

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C3.12

4/5/2018
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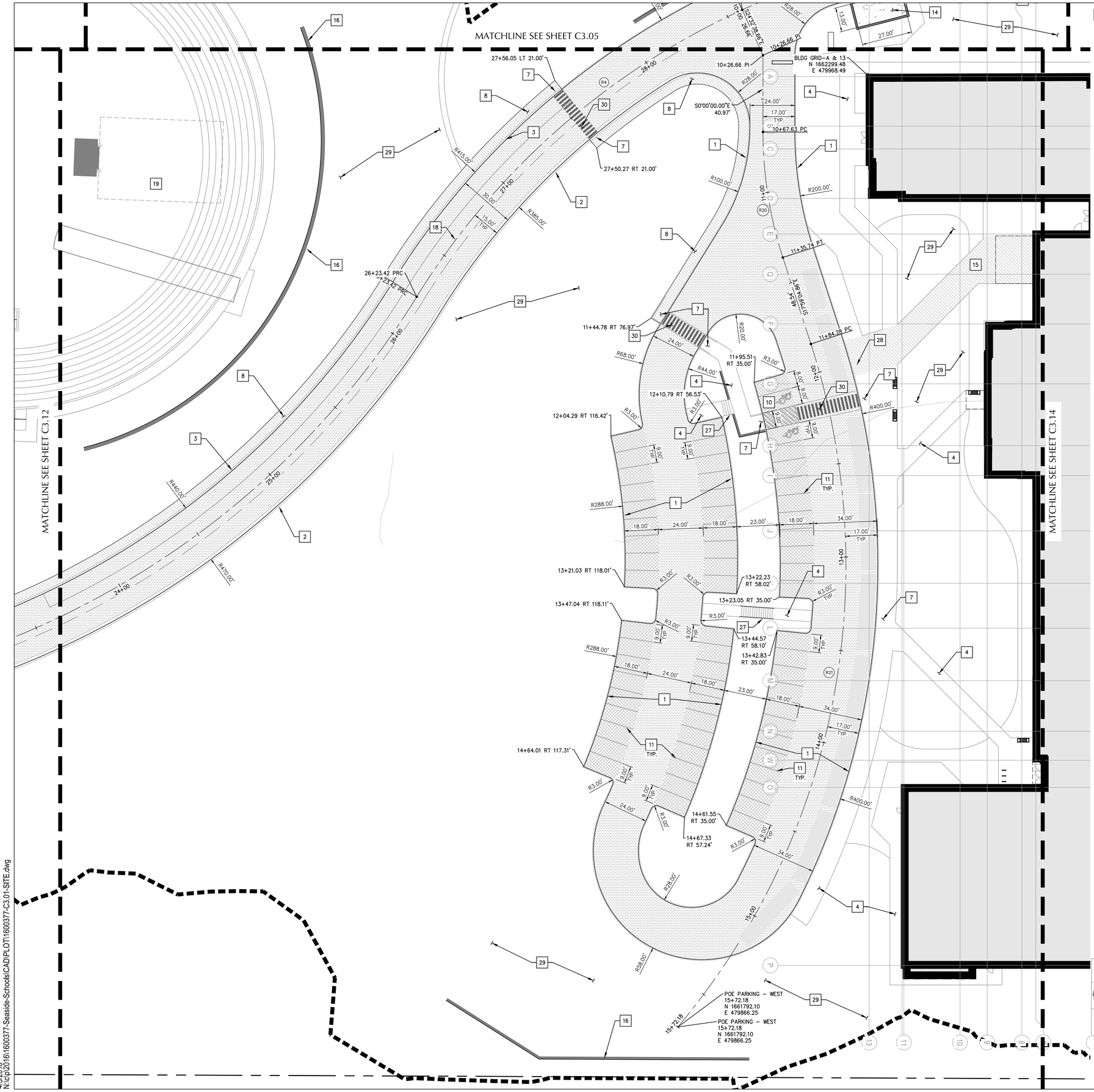

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22. MONUMENT SIGN – SEE ARCHITECTURAL PLANS.
23. PAINTED CURB OR FIRE LINE (X/CX)
24. STORM FACILITY. SEE SHEET C6.00 SERIES
25. SEE LANDSCAPE PLANS FOR FENCING, HAND/GUARD RAILS, AND GATES
26. BIKE PARKING RACKS – SEE LANDSCAPE PLANS
27. STAIR SEE LANDSCAPE PLANS
28. DRIVEWAY ACCESS
29. SEE LANDSCAPE PLANS FOR GENERAL PLANTING AND LANDSCAPING
30. PEDESTRIAN CROSSWALK STRIPING (X/CX)

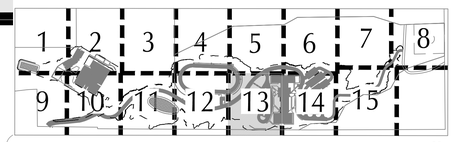
SHEET NOTES

1. IF ROADWAY CURB CURVE INFORMATION IS NOT PROVIDED, CURB LOCATION IS EVENLY OFFSET FROM ROADWAY CENTERLINE. SEE SHEET C3.20 FOR ROADWAY ALIGNMENT PLAN.
2. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
3. SEE SHEET C0.01 FOR ADDITIONAL CONSTRUCTION NOTES AND LEGEND INFORMATION.
4. SEE LANDSCAPE PLANS FOR PLANTING AND ADDITIONAL SITE FEATURES.
5. COORDINATE FINAL PAVING AND CURBS AT DRIVEWAY ENTRIES WITH FUTURE RIGHT–OF–WAY IMPROVEMENTS.
6. BUILDING LAYOUT REFER TO ARCHITECTURAL AND LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
7. SEE C5.00 SERIES FOR RETAINING WALL LAYOUT.

SHEET LEGEND

- PROPERTY LINE
- UGB — URBAN GROWTH BOUNDARY LINE
- LIMITS OF WORK
- PROPOSED FENCE (SEE LANDSCAPE PLANS)
- CENTERLINE ROADWAY
- STANDARD CURB
- SAWCUT
- CANOPY DRIP LINE
- PROPOSED BUILDING
- ASPHALT PAVEMENT: LIGHT DUTY (X/CX)
- ASPHALT PAVEMENT: HEAVY DUTY (X/CX)
- CONCRETE PAVEMENT (X/CX)
- EXTENDED DRY BASIN
- GRAVEL (X/CX)

C	COMPACT PARKING STALLS
LT	LEFT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
R	RADIUS
RT	RIGHT
(RX)	SEE SHEET C3.16 ROAD CENTERLINE RADIUS TABLE



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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SITE PLAN

C3.13

4/5/2018
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MATCHLINE SEE SHEET C3.06

MATCHLINE SEE SHEET C3.13

MATCHLINE SEE SHEET C3.15

MIDDLE SCHOOL

HIGH SCHOOL

POE PARKING – EAST
18+53.20
N 1662268.80
E 480259.82

BLDG GRID–P & 2
N 1661824.98
E 480164.99

POB PARKING – EAST
10+00.00
N 1661871.25
E 480373.37

℄–℄ INTERSECTION
37+93.89 (MAIN ROAD)=
10+00.00 (PARKING – EAST)
N 1661871.25
E 480373.37

END AC HEAVY DUTY
BEGIN GRAVEL ROAD

UGB

KEY NOTES

1 STANDARD CURB (X/CX)
2 STANDARD CURB AND GUTTER (X/CX)
3 MOUNTABLE CURB (X/CX)
4 PEDESTRIAN CONCRETE SIDEWALK – SEE LANDSCAPE PLANS (X/CX)
5 FLUSH CURB (X/CX)
6 CONCRETE CURB ENDING (X/CX)
7 INSTALL CURB RAMP (X/CX)
8 HEAVY MOUNTABLE CURB AND SIDEWALK – MONOLITHIC (X/CX)
9 WHEEL STOP (X/CX)
10 ADA PARKING STALLS AND STRIPING (X/CX)
11 4" WHITE STRIPE
12 CROSSWALK STRIPING AND CONCRETE PAVEMENT (X/CX)
13 GENERATOR AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.
14 TRANSFORMER AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.
15 SERVICE YARD WITH CMU SCREEN WALL – SEE ARCHITECTURAL PLANS
16 SEE SHEET C5.XX SERIES FOR SITE RETAINING WALLS
17 COORDINATE BUILDING GRID LINE LOCATION WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION
18 SEE SHEET C3.21 THROUGH C3.53 FOR ROADWAY CENTERLINE ALIGNMENTS AND ROAD PROFILES.
19 PRACTICE TRACK AND FIELD – SEE LANDSCAPE PLANS
20 BOLLARD – SEE LANDSCAPE PLANS
21 LIGHT POLE – SEE LANDSCAPE PLANS
22 MONUMENT SIGN – SEE ARCHITECTURAL PLANS.
23 PAINTED CURB OR FIRE LINE (X/CX)
24 STORM FACILITY. SEE SHEET C6.00 SERIES
25 SEE LANDSCAPE PLANS FOR FENCING, HAND/GUARD RAILS, AND GATES
26 BIKE PARKING RACKS – SEE LANDSCAPE PLANS
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SHEET LEGEND

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UGB — URBAN GROWTH BOUNDARY LINE
LIMITS OF WORK
PROPOSED FENCE (SEE LANDSCAPE PLANS)
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CANOPY DRIP LINE
PROPOSED BUILDING
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C	COMPACT PARKING STALLS
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PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVE
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R	RADIUS
RT	RIGHT
(RX)	SEE SHEET C3.16 ROAD CENTERLINE RADIUS TABLE

KEY MAP

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SITE PLAN

C3.14

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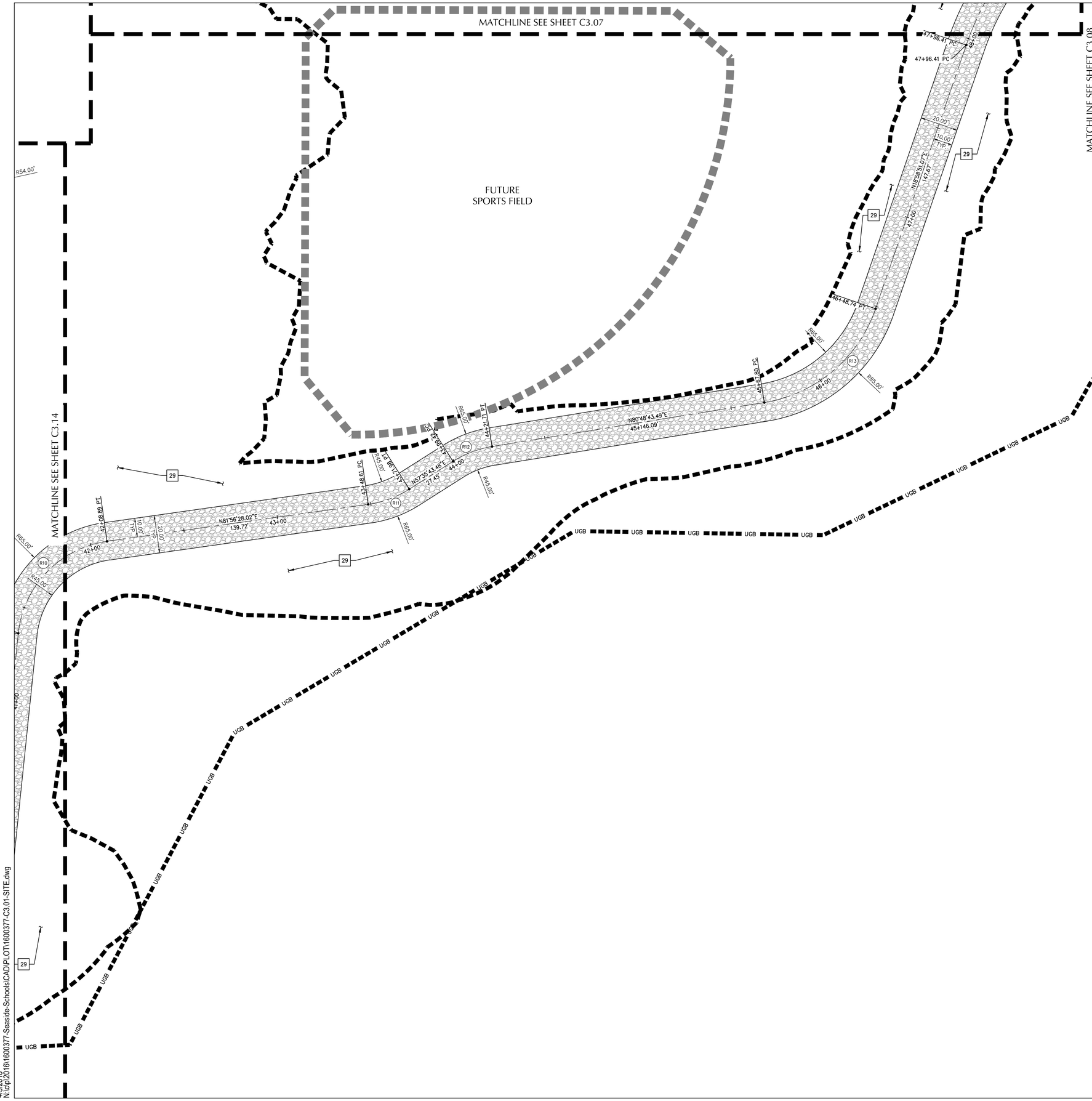

KEY NOTES

1	STANDARD CURB	X, CX
2	STANDARD CURB AND GUTTER	X, CX
3	MOUNTABLE CURB	X, CX
4	PEDESTRIAN CONCRETE SIDEWALK – SEE LANDSCAPE PLANS	X, CX
5	FLUSH CURB	X, CX
6	CONCRETE CURB ENDING	X, CX
7	INSTALL CURB RAMP	X, CX
8	HEAVY MOUNTABLE CURB AND SIDEWALK – MONOLITHIC	X, CX
9	WHEEL STOP	X, CX
10	ADA PARKING STALLS AND STRIPING	X, CX
11	4" WHITE STRIPE	
12	CROSSWALK STRIPING AND CONCRETE PAVEMENT	X, CX
13	GENERATOR AND CONCRETE PAD – REF. ELECT./STRUCT. PLANS.	
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23	PAINTED CURB OR FIRE LINE	X, CX
24	STORM FACILITY. SEE SHEET C6.00 SERIES	
25	SEE LANDSCAPE PLANS FOR FENCING, HAND/GUARD RAILS, AND GATES	
26	BIKE PARKING RACKS – SEE LANDSCAPE PLANS	
27	STAIR SEE LANDSCAPE PLANS	
28	DRIVEWAY ACCESS	
29	SEE LANDSCAPE PLANS FOR GENERAL PLANTING AND LANDSCAPING	
30	PEDESTRIAN CROSSWALK STRIPING	X, CX

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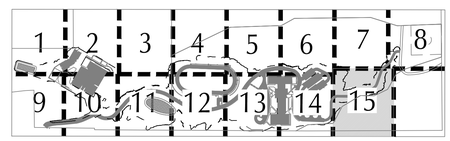
RX	SEE SHEET C3.16 ROAD CENTERLINE RADIUS TABLE



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SITE PLAN

C3.15

4/5/2018
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ROAD CENTERLINE RADIUS TABLE

CENTERLINE RADIUS #	BEGINNING NORTHING	BEGINNING EASTING	LENGTH	RADIUS	DELTA	TANGENT DISTANCE	ENDING NORTHING	ENDING EASTING
R1	1661945.40	478345.42	157.43'	89.00'	101°21'00"	137.69'	1661942.08	478483.07
R2	1662101.56	478991.02	472.01'	335.00'	80°43'40"	433.92'	1662034.22	478562.35
R3	1662033.32	479102.66	712.02'	455.00'	89°39'40"	641.56'	1662181.94	479726.77
R4	1662351.25	480191.87	533.67'	400.00'	76°26'30"	494.96'	1662181.94	479726.77
R5	1662236.84	480258.70	144.84'	100.00'	82°59'10"	132.51'	1662351.25	480191.87
R6	1662119.72	480224.73	122.09'	703.85'	9°56'20"	121.94'	1662236.84	480258.70
R7	1662119.72	480224.73	199.06'	261.89'	43°33'00"	194.30'	1661925.42	480224.44
R8	1661925.42	480224.44	93.98'	80.00'	67°18'30"	88.67'	1661873.90	480296.60
R9	1661866.88	480499.54	67.59'	45.00'	86°03'40"	61.41'	1661907.21	480545.86
R10	1662103.38	480608.14	72.97'	55.00'	76°01'10"	67.74'	1662054.60	480561.15
R11	1662122.97	480746.48	23.37'	55.00'	24°20'40"	23.19'	1662130.99	480768.25
R12	1662153.56	480812.11	21.71'	55.00'	22°37'00"	21.57'	1662146.01	480791.91
R13	1662176.88	480956.33	80.94'	75.00'	61°49'50"	77.07'	1662226.53	481015.27
R14	1662467.14	481213.79	194.58'	150.00'	74°19'20"	181.22'	1662366.17	481063.30
R15	1661967.21	480376.52	123.72'	317.00'	22°21'40"	122.93'	1662088.53	480356.65
R16	1662134.79	480370.48	51.84'	40.00'	74°15'10"	48.29'	1662088.53	480356.65
R17	1662250.13	480527.89	86.10'	42.00'	117°27'10"	71.79'	1662321.66	480521.69
R18	1662360.17	480443.83	42.45'	40.07'	60°42'30"	40.50'	1662357.29	480403.44
R19	1662270.68	480274.70	26.00'	52.38'	28°26'50"	25.74'	1662280.42	480298.52
R20	1662269.94	479911.74	68.11'	217.00'	17°59'00"	67.84'	1662202.94	479922.34
R21	1661792.10	479866.25	387.90'	383.00'	58°01'40"	371.53'	1662156.77	479937.33

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C3.16

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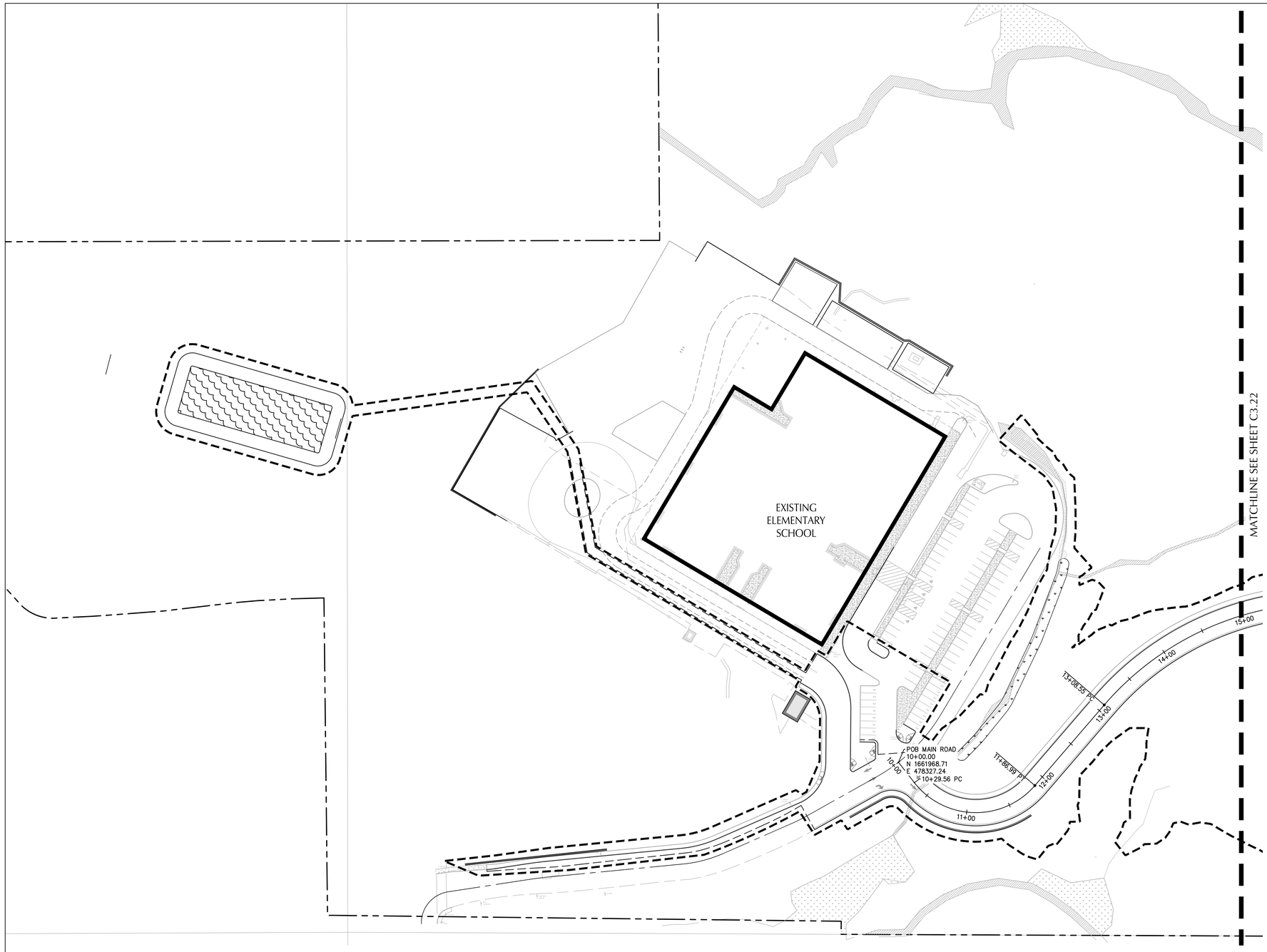

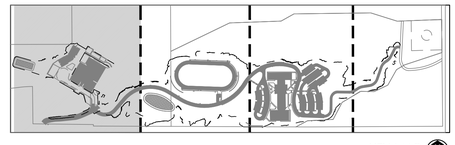

KEY MAP

SCALE 1 INCH = 50 FEET

50 0 50 100

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ROAD ALIGNMENT PLAN

C3.21

4/5/2018
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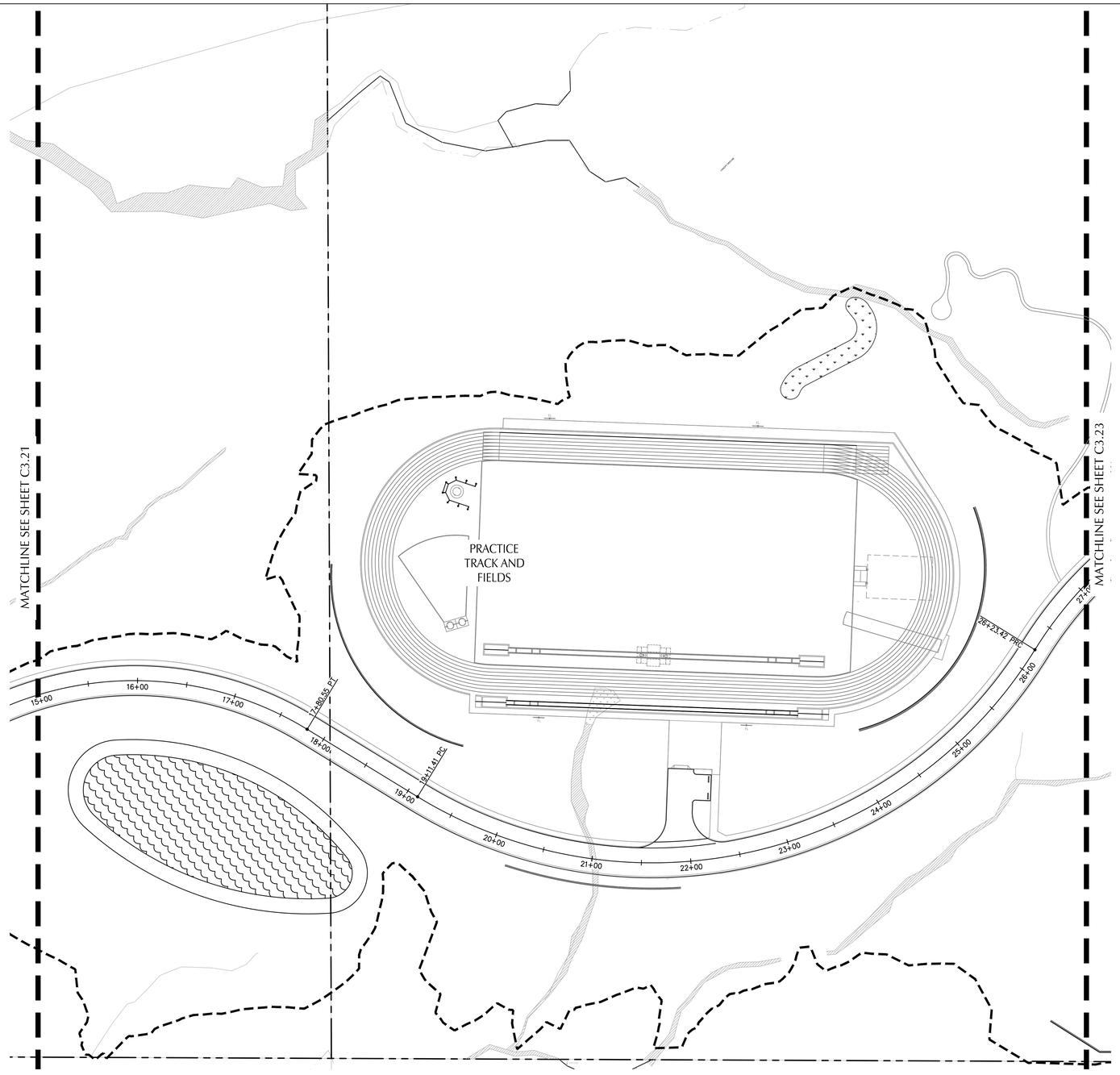

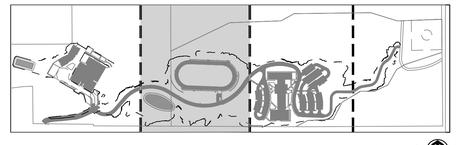

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ROAD ALIGNMENT PLAN

C3.22

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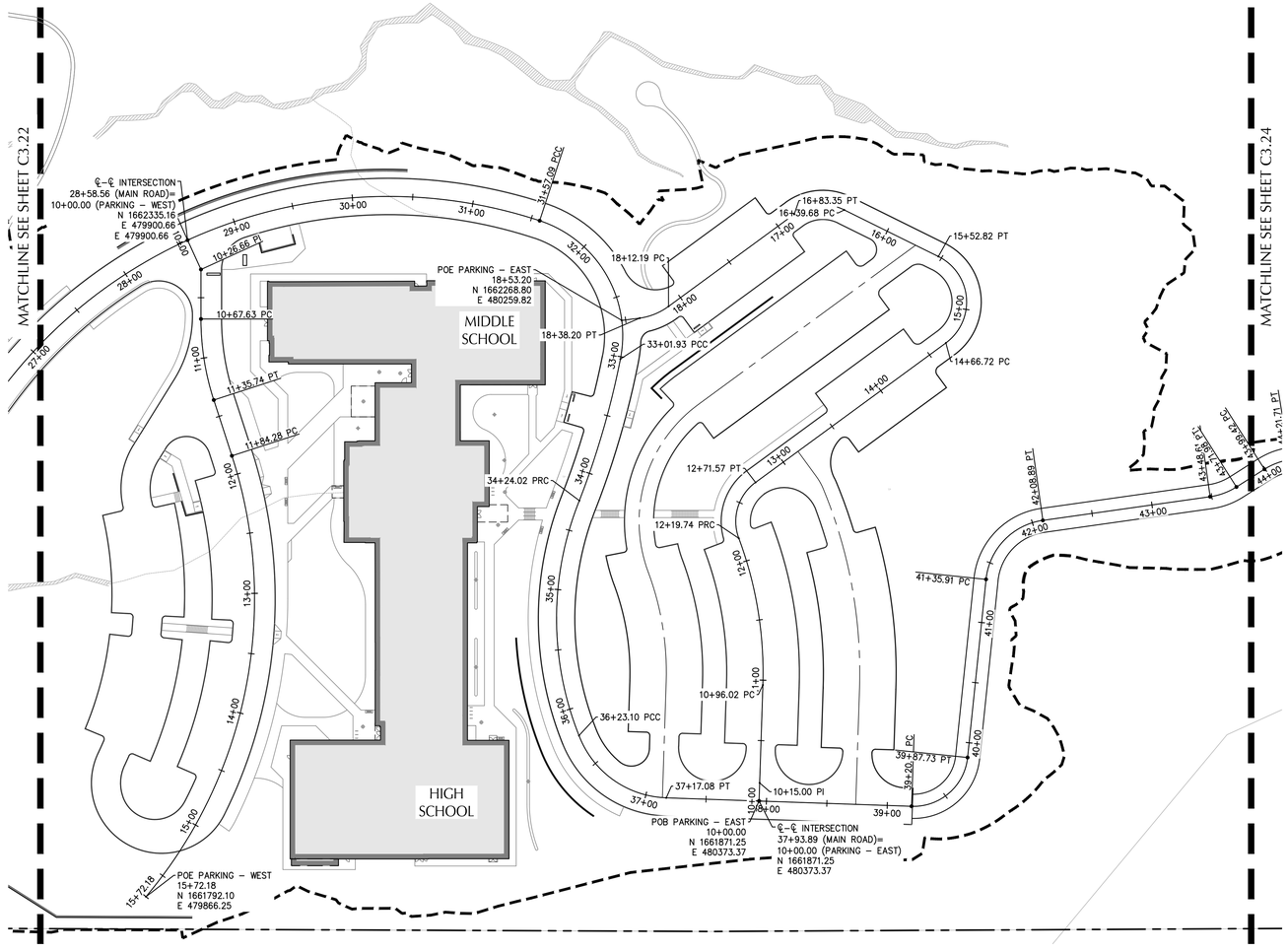

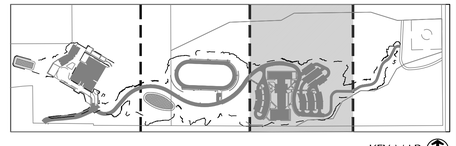

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ROAD ALIGNMENT PLAN

C3.23

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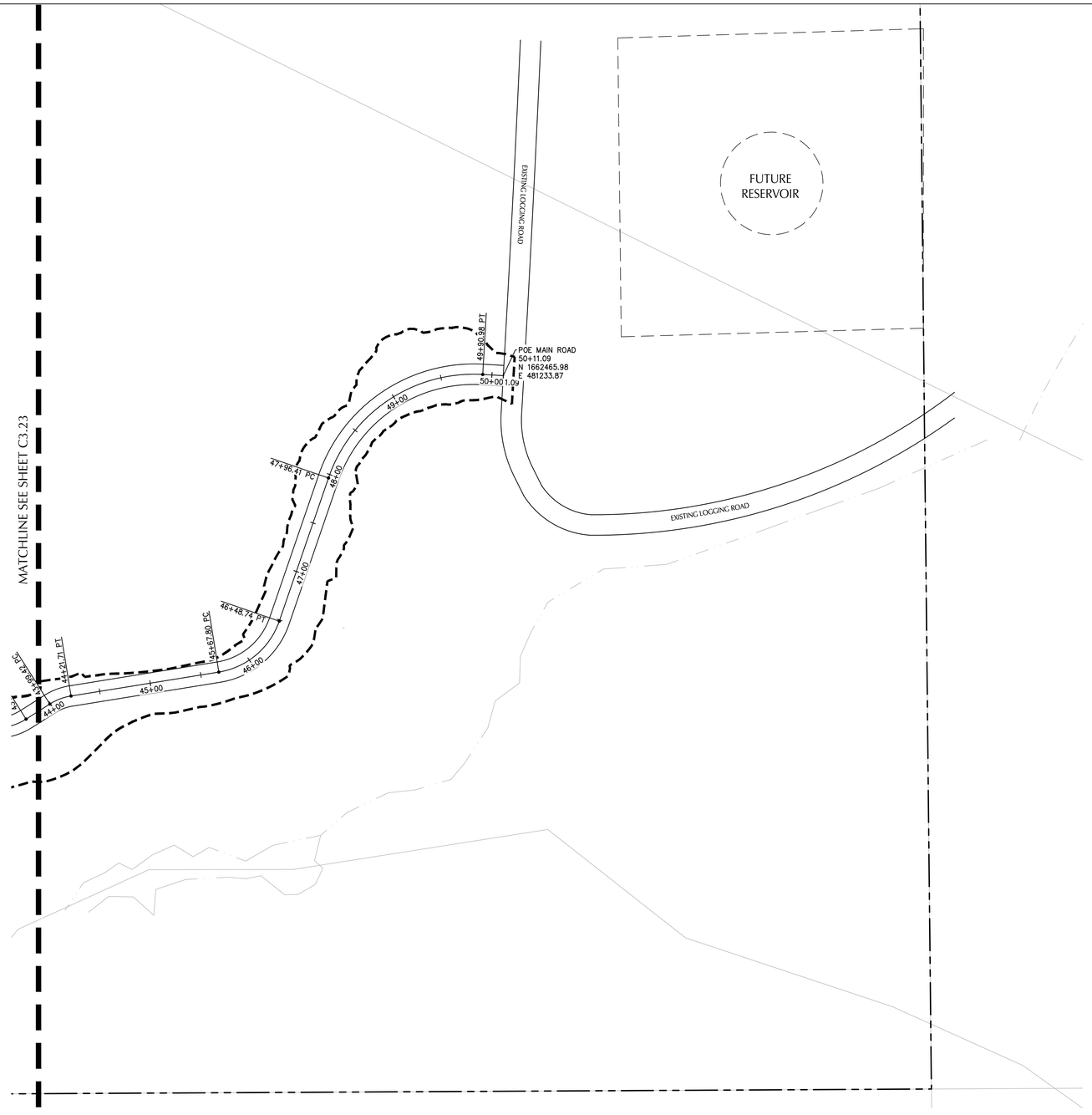

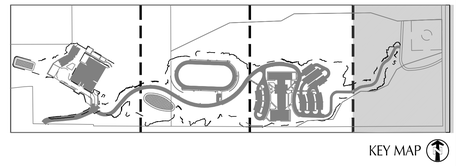

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ROAD ALIGNMENT PLAN

C3.24

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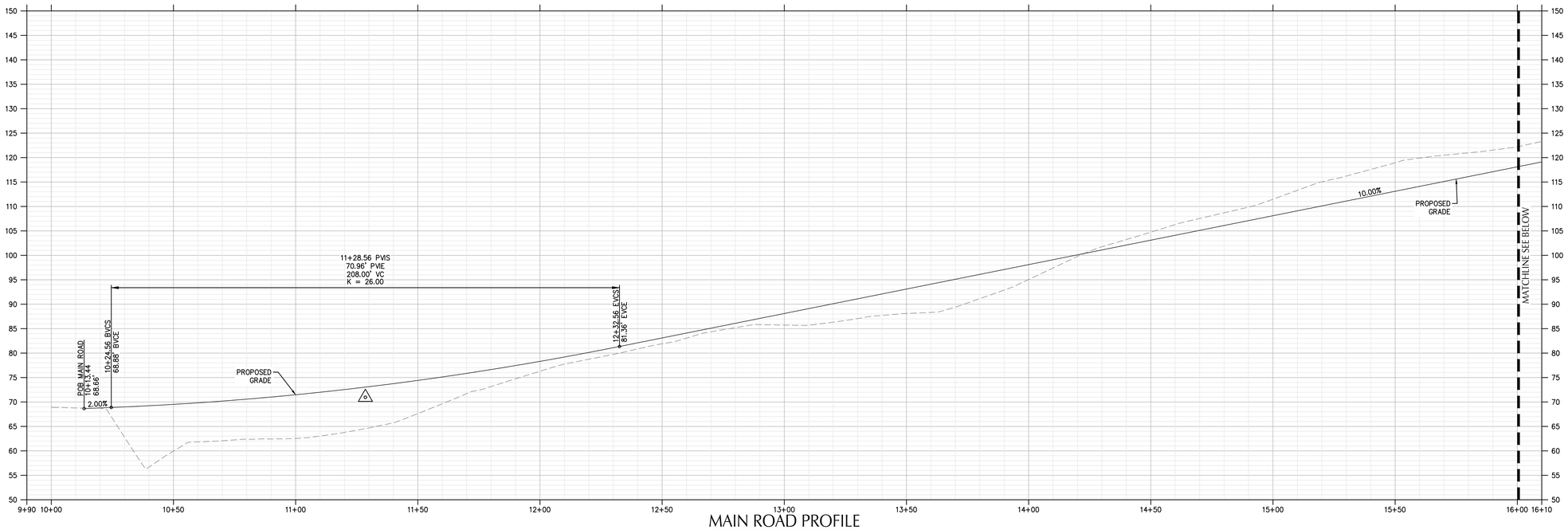
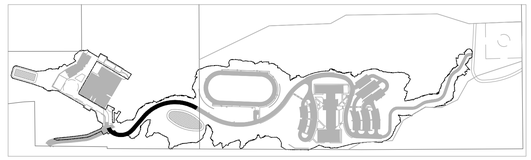
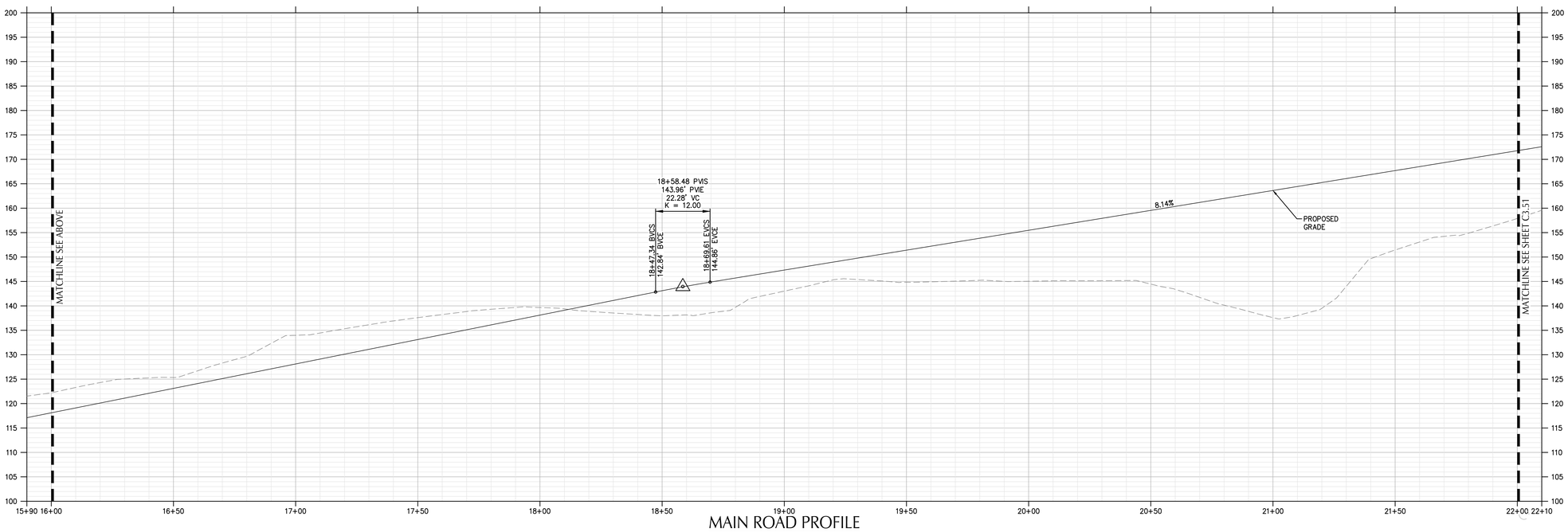


MAIN ROAD PROFILE

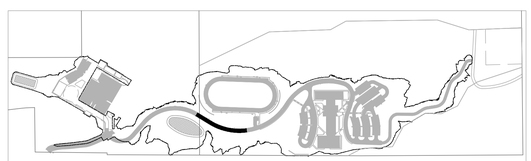
SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'





MAIN ROAD PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



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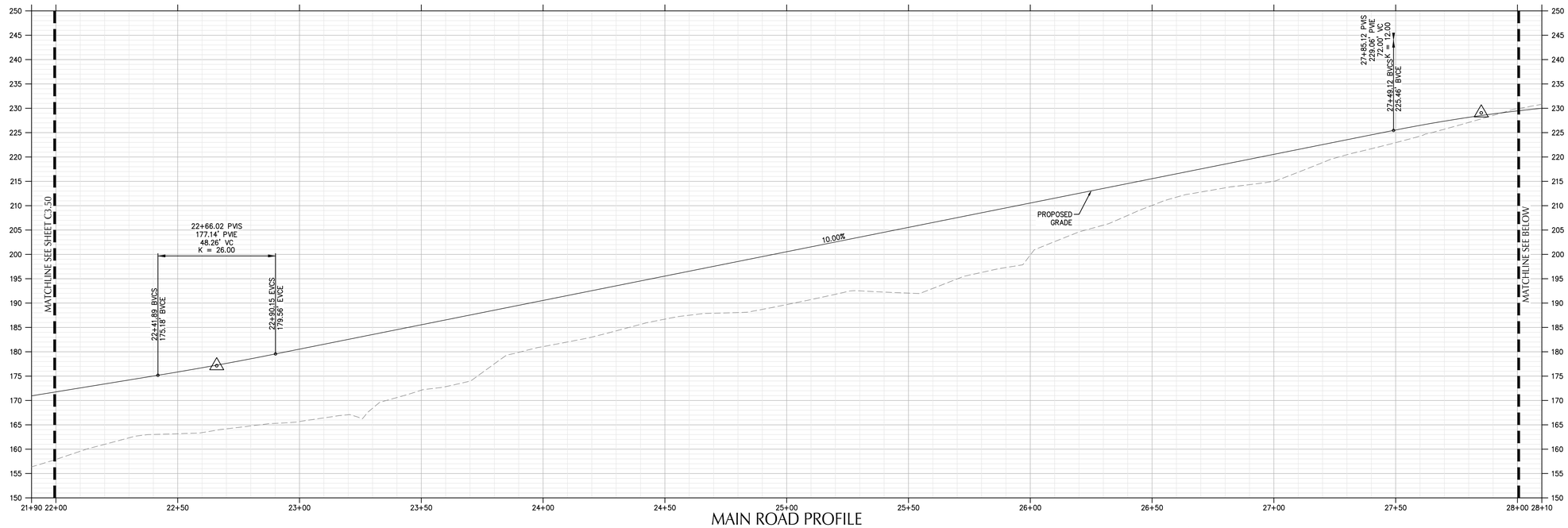
ROAD PROFILES

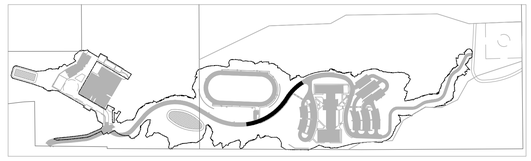
C3.50

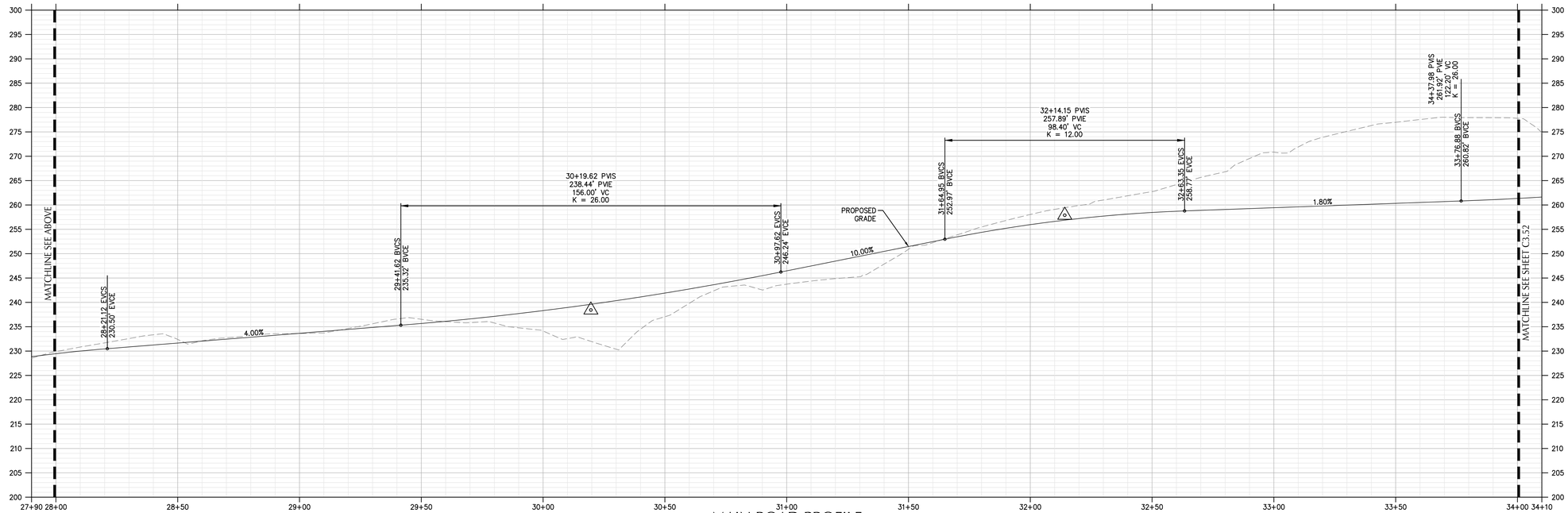
4/5/2018
N:\cp\2016\16600377-Seaside-Schools\CAD\PLOT\16600377-C3.50-ROAD PROF.dwg



MAIN ROAD PROFILE

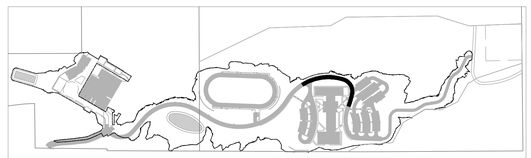
SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'





MAIN ROAD PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



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ROAD PROFILES

C3.51

4/5/2018
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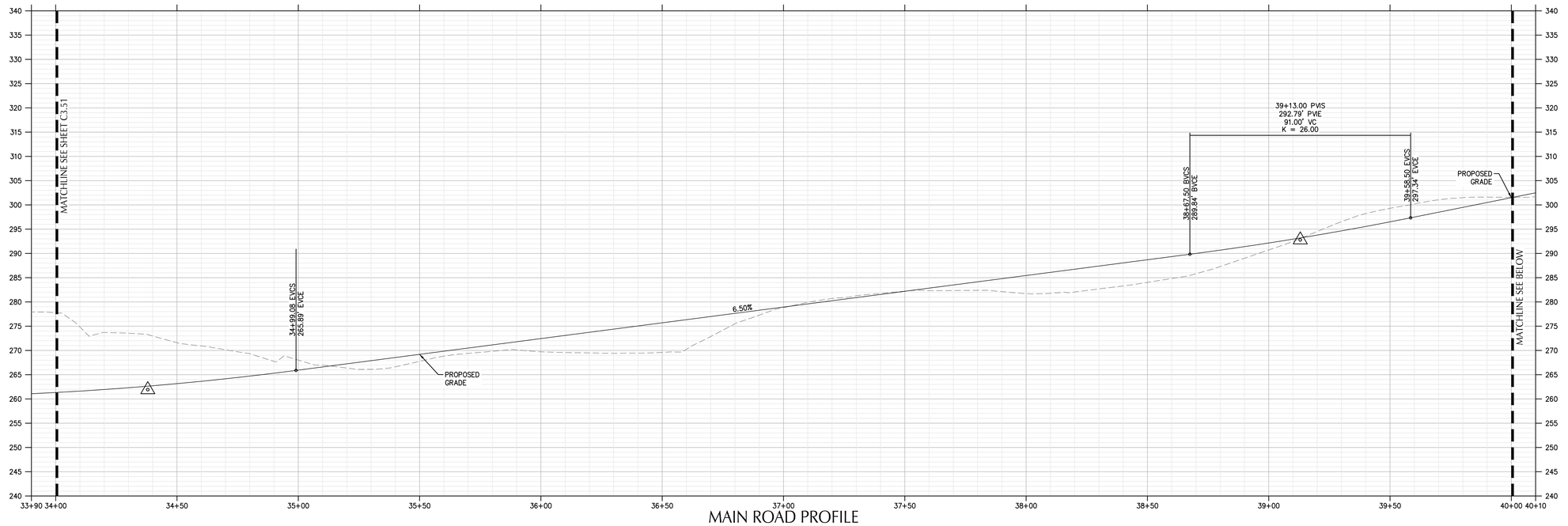

MAIN ROAD PROFILE

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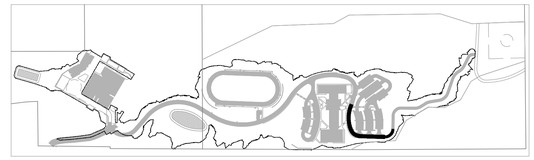
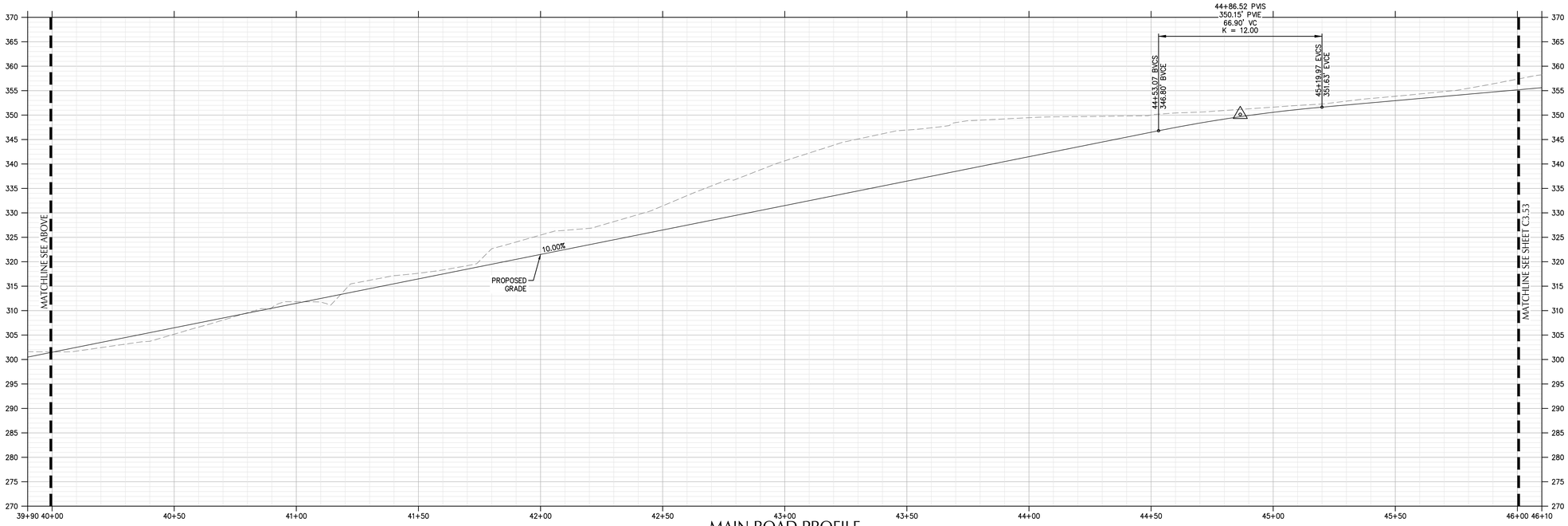
VERT: 1" = 10'





MAIN ROAD PROFILE

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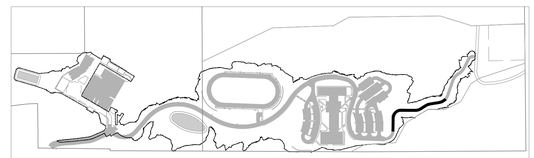
VERT: 1" = 10'



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ROAD PROFILES

C3.52

4/5/2018
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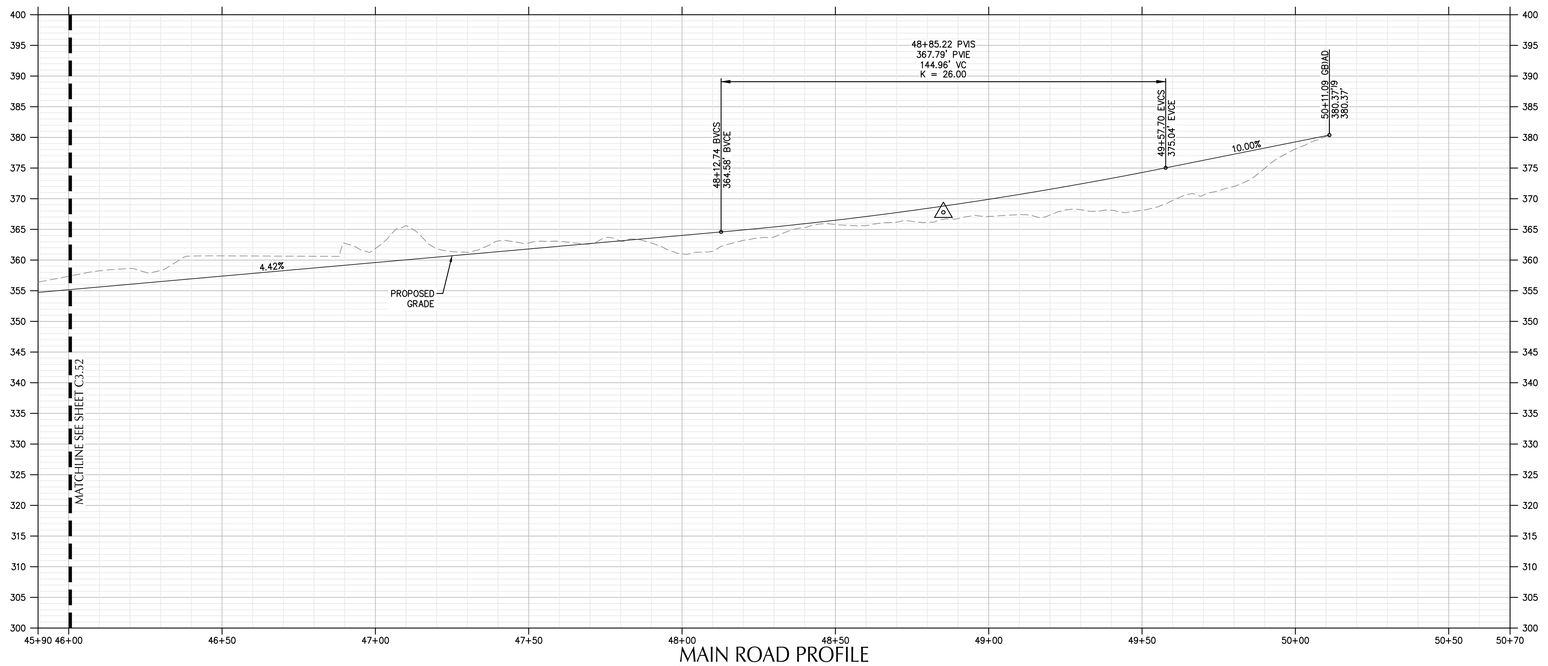
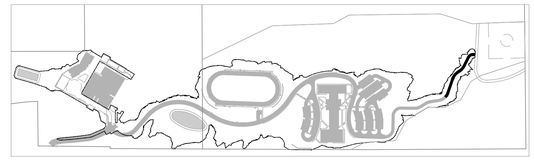


MAIN ROAD PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



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ROAD PROFILES

C3.53

4/5/2018
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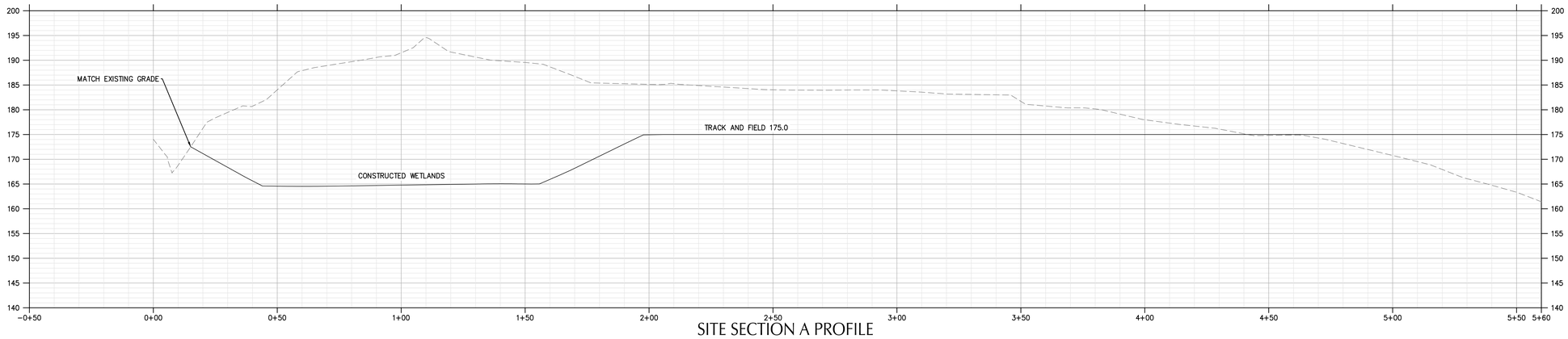
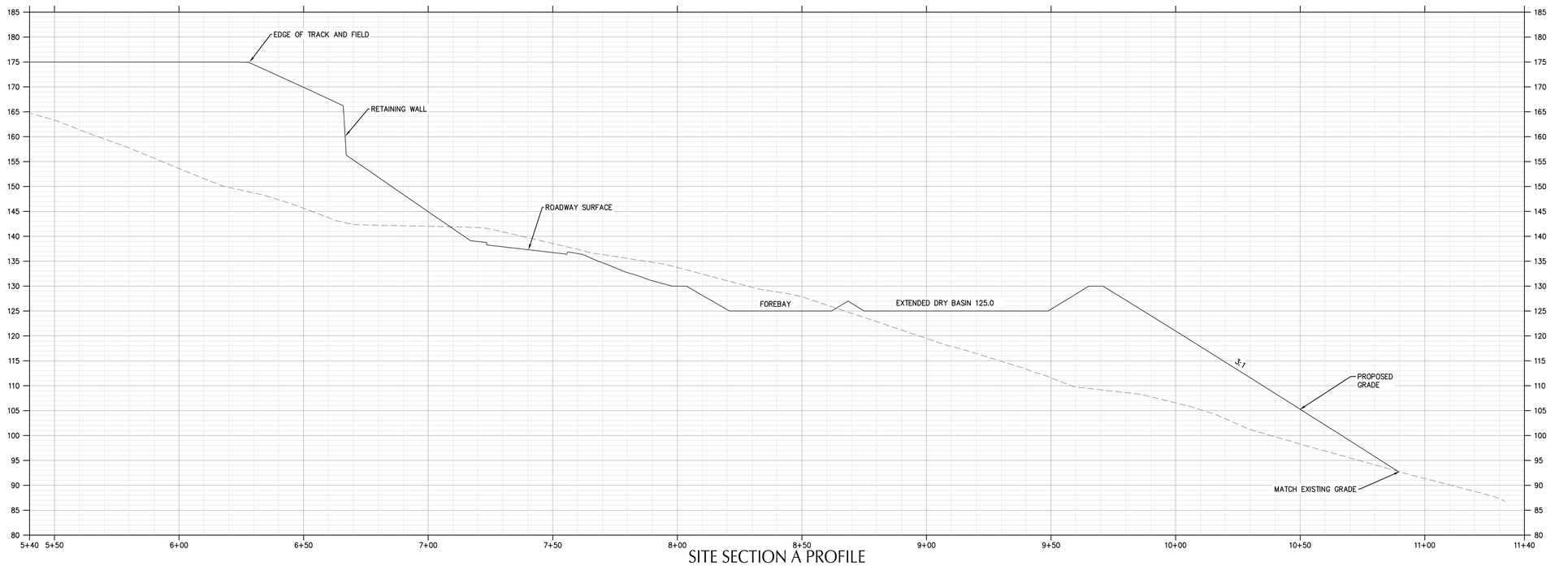


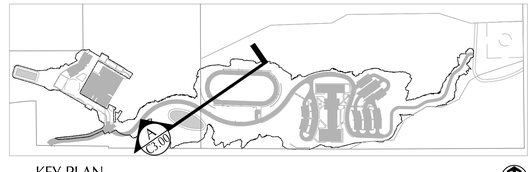
SITE SECTION A PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



SITE SECTION A PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



KEY PLAN

SCALE: NTS

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

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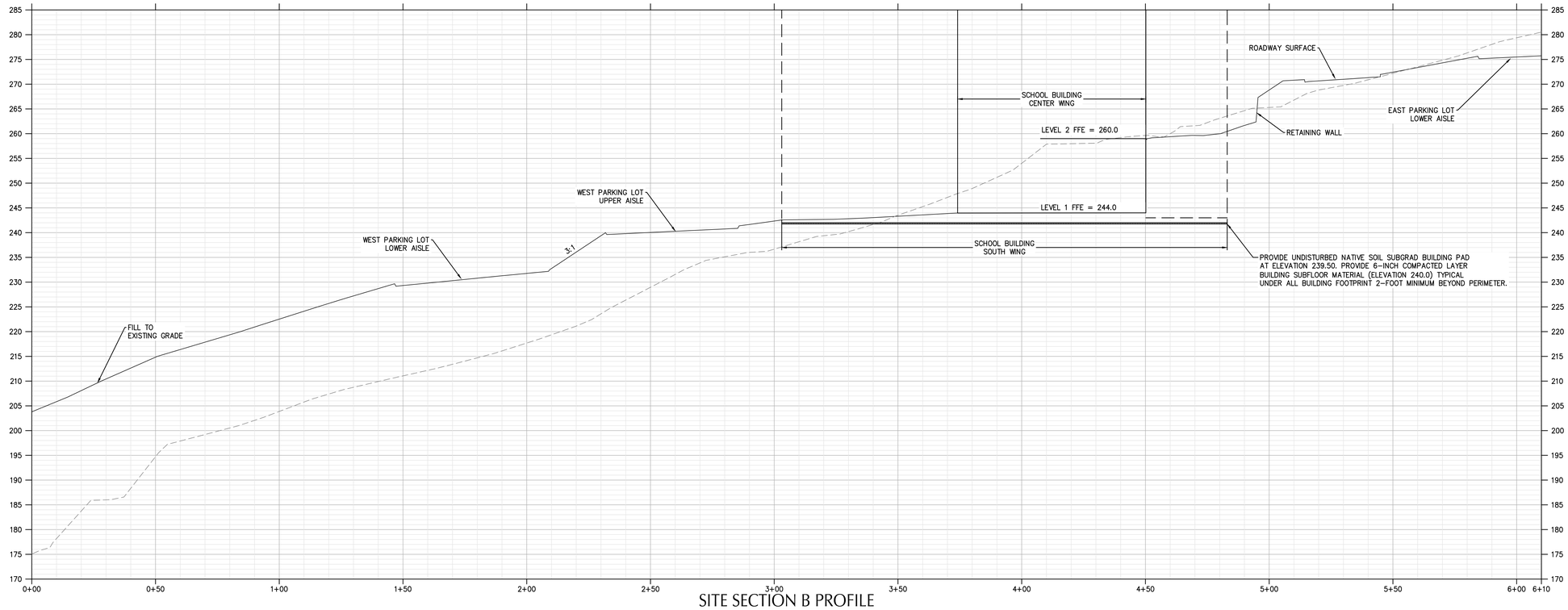
SITE SECTIONS

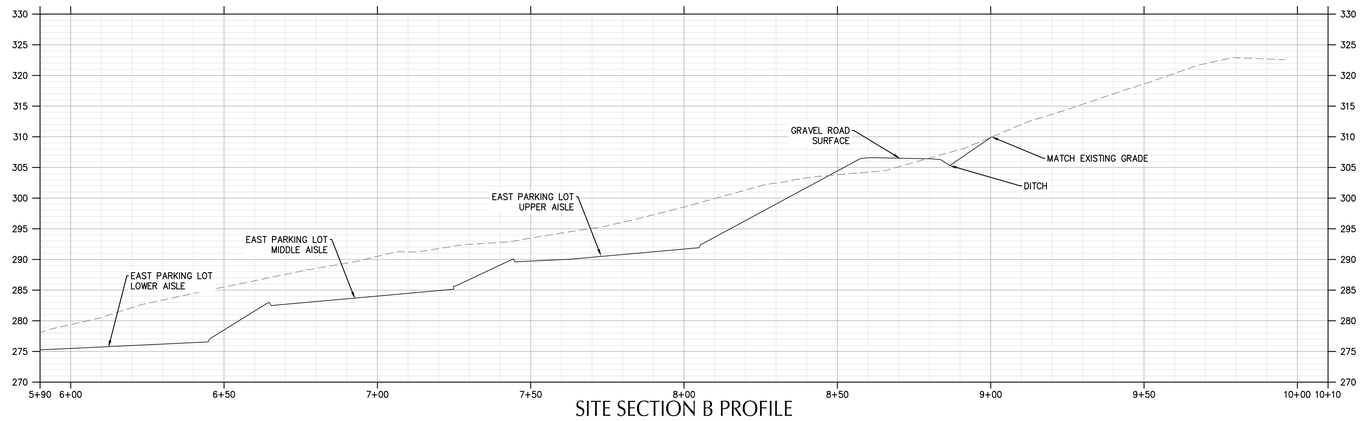
C3.70

4/5/2018
N:\cip\2016\16003 77-Seaside-Schools\CAD\PLOT\16003 77-C3.70-SECTIONS.dwg



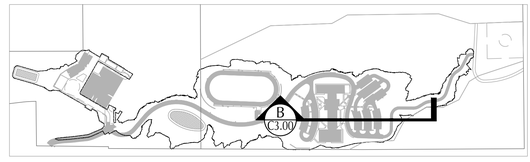
SITE SECTION B PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



SITE SECTION B PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



KEY PLAN
SCALE: NTS

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SITE SECTIONS

C3.71

4/5/2018
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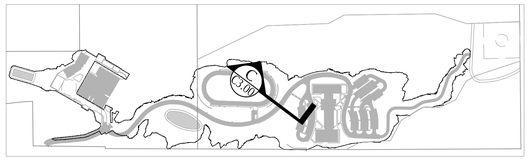
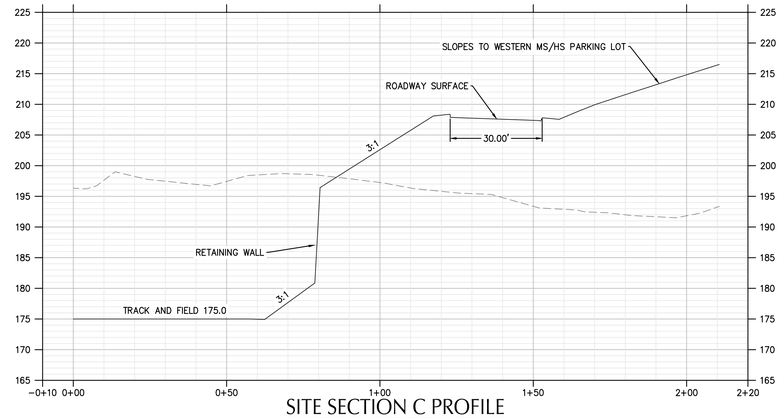
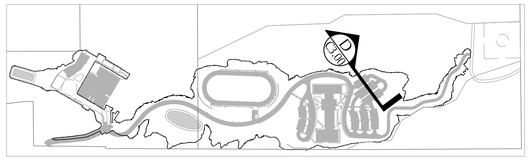


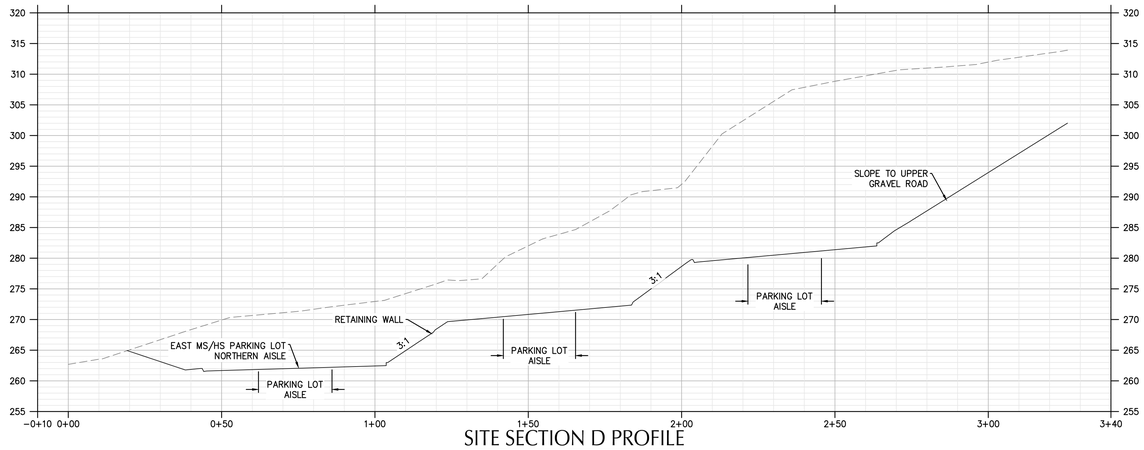
KEY PLAN
SCALE: NTS



SITE SECTION C PROFILE
SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



KEY PLAN
SCALE: NTS



SITE SECTION D PROFILE
SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'

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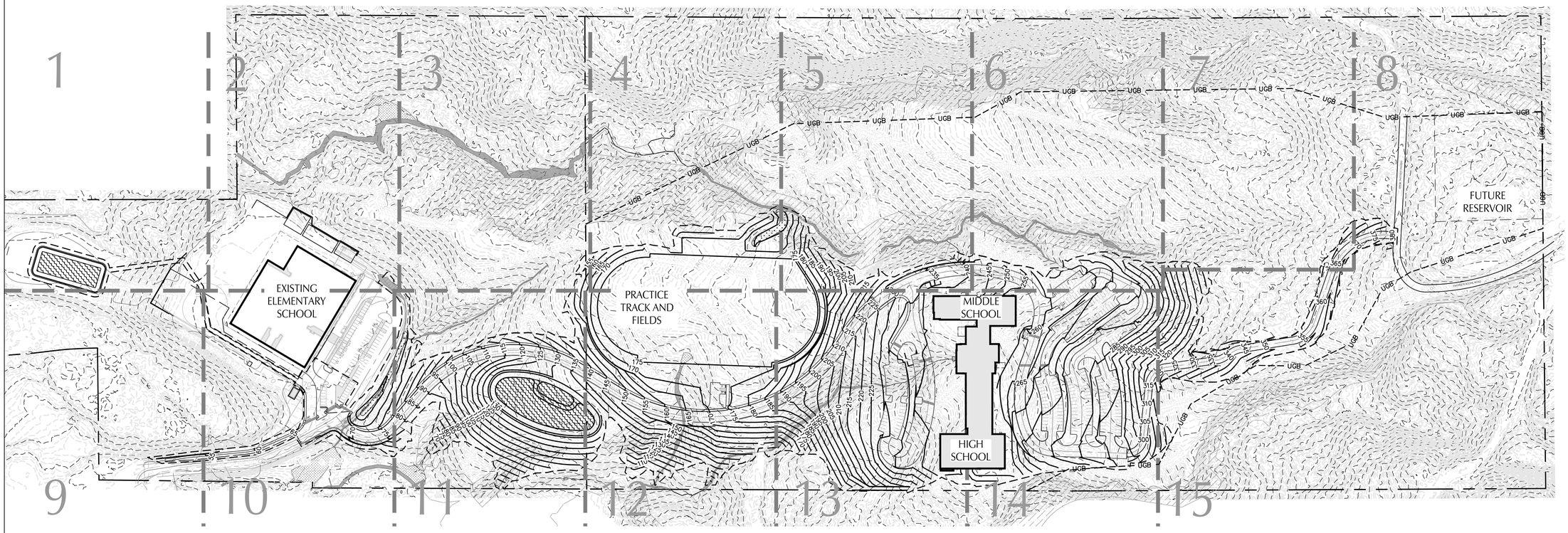
SITE SECTIONS

C3.72

4/5/2018
N:\civil\2016\16003377-Seaside-Schools\CAD\PLOT\16003377-C3.70-SECTIONS.dwg



SHEET NOTES

1. SLOPES PROVIDED ON SLOPE ARROW ARE FOR REFERENCE ONLY.
2. LANDINGS ON ACCESSIBLE ROUTES SHALL NOT EXCEED 2% IN ANY DIRECTION.
3. ALL ACCESSIBLE ROUTES SHALL COMPLY WITH CURRENT ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES (ADAAG).

SHEET LEGEND

- EX. CONTOUR MINOR
- EX. CONTOUR MAJOR
- CONTOUR MINOR (FG)
- CONTOUR MAJOR (FG)
- SITE WORK LIMIT
- CANOPY DRIP LINE

SCALE 1 INCH = 120 FEET
120 0 120 240

4/5/2018
N:\kpff\2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C4.00-GRADING-OVERALL.dwg

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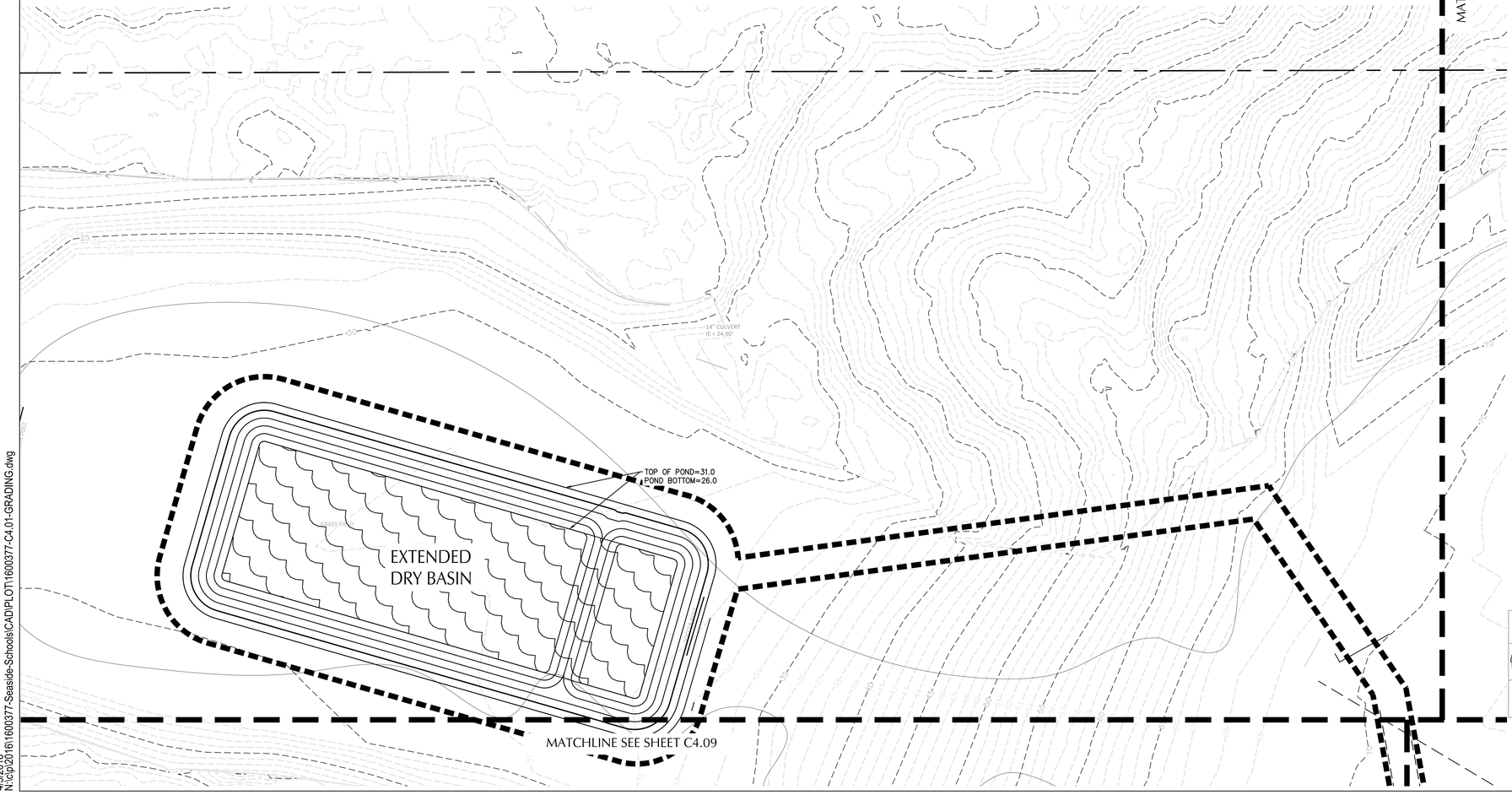
OVERALL SITE GRADING PLAN

C4.00



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GRADING QUANTITIES

CUT (CY)	FILL (CY)	NET (CY)
204,700	222,000	17,300 (FILL)

TOTAL IMPACT AREA = 1,176,700 SF (27 ACRES)

NOTE:

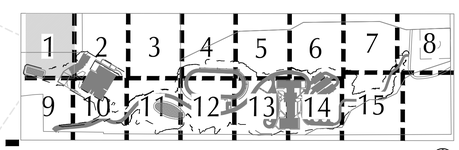
THESE QUANTITIES DO NOT ACCOUNT FOR STRIPPING OF THE SITE. GEODESIGN RECOMMENDED APPROXIMATELY 3–INCHES ACROSS THE SITE. ADDITIONALLY, ROAD SURFACING, BASE COURSE, DRAINAGE COURSE UNDER THE FIELD, AND BUILDING FOUNDATIONS ARE NOT INCORPORATED IN THESE QUANTITIES.

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
XX.XX XX	SPOT ELEVATION DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
BC	BOTTOM OF CURB
BS	BOTTOM OF STAIR
EG	EXISTING GRADE
FF	FINISHED FLOOR
FG TW	FINISHED GRADE TOP OF WALL
FG BW	FINISHED GRADE BOTTOM OF WALL
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
TS	TOP OF STAIR
(XXX.X±)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

- 49 — EX. CONTOUR MINOR
- 50 — EX. CONTOUR MAJOR
- 49 — CONTOUR MINOR (FG)
- 50 — CONTOUR MAJOR (FG)
- SITE WORK LIMIT
- CANOPY DRIP LINE



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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project #	17007

GRADING PLAN

C4.01

4/5/2018
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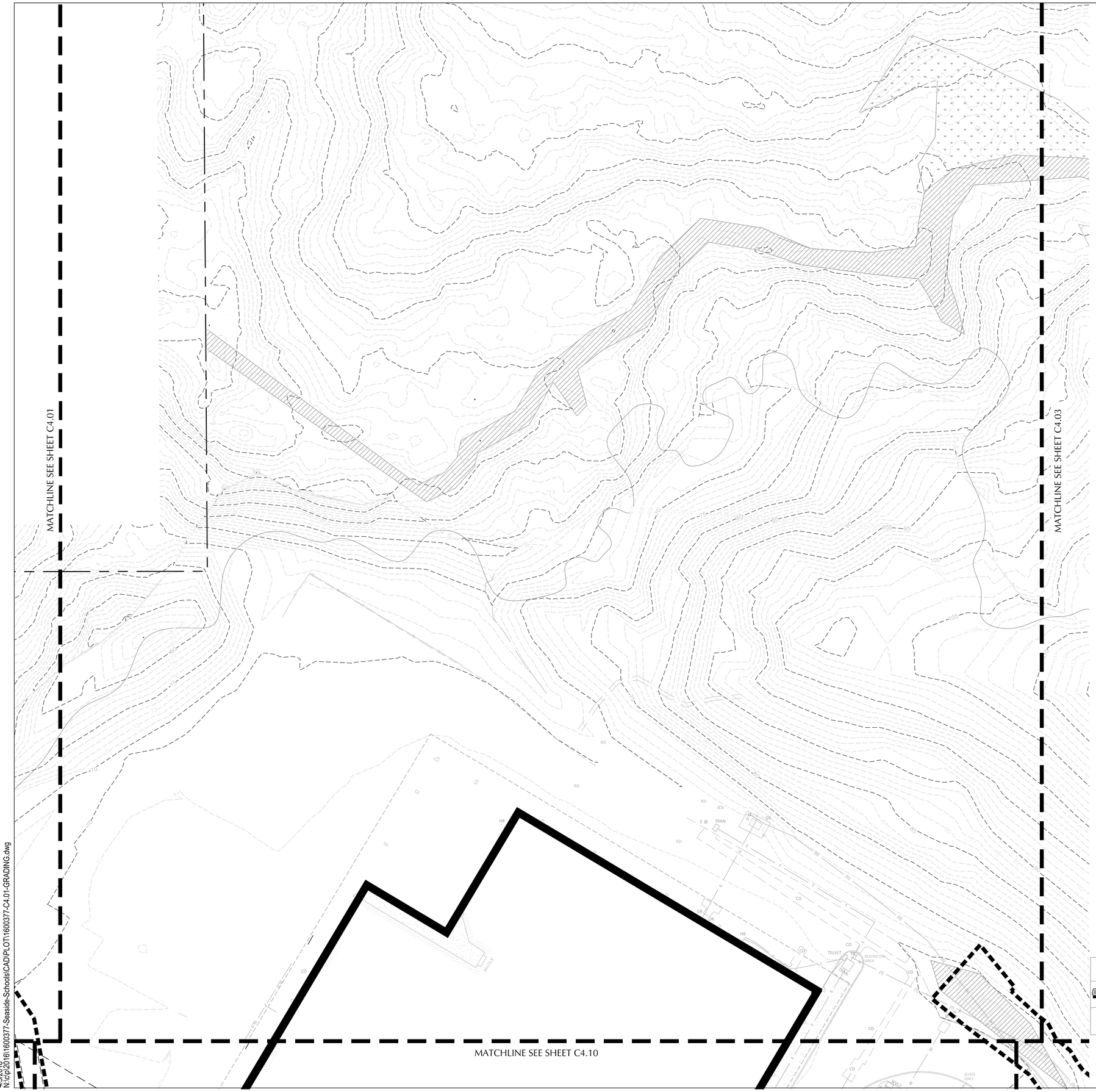

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CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
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BS	BOTTOM OF STAIR
EG	EXISTING GRADE
FF	FINISHED FLOOR
FG TW	FINISHED GRADE TOP OF WALL
FG BW	FINISHED GRADE BOTTOM OF WALL
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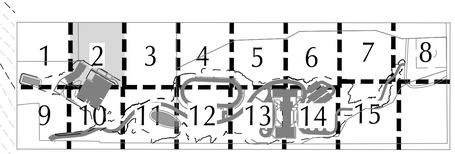
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
TS	TOP OF STAIR
(XXX.X±)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

- EX. CONTOUR MINOR
- EX. CONTOUR MAJOR
- CONTOUR MINOR (FG)
- CONTOUR MAJOR (FG)
- SITE WORK LIMIT
- CANOPY DRIP LINE



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

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project #	17007

GRADING PLAN

C4.02

4/5/2018
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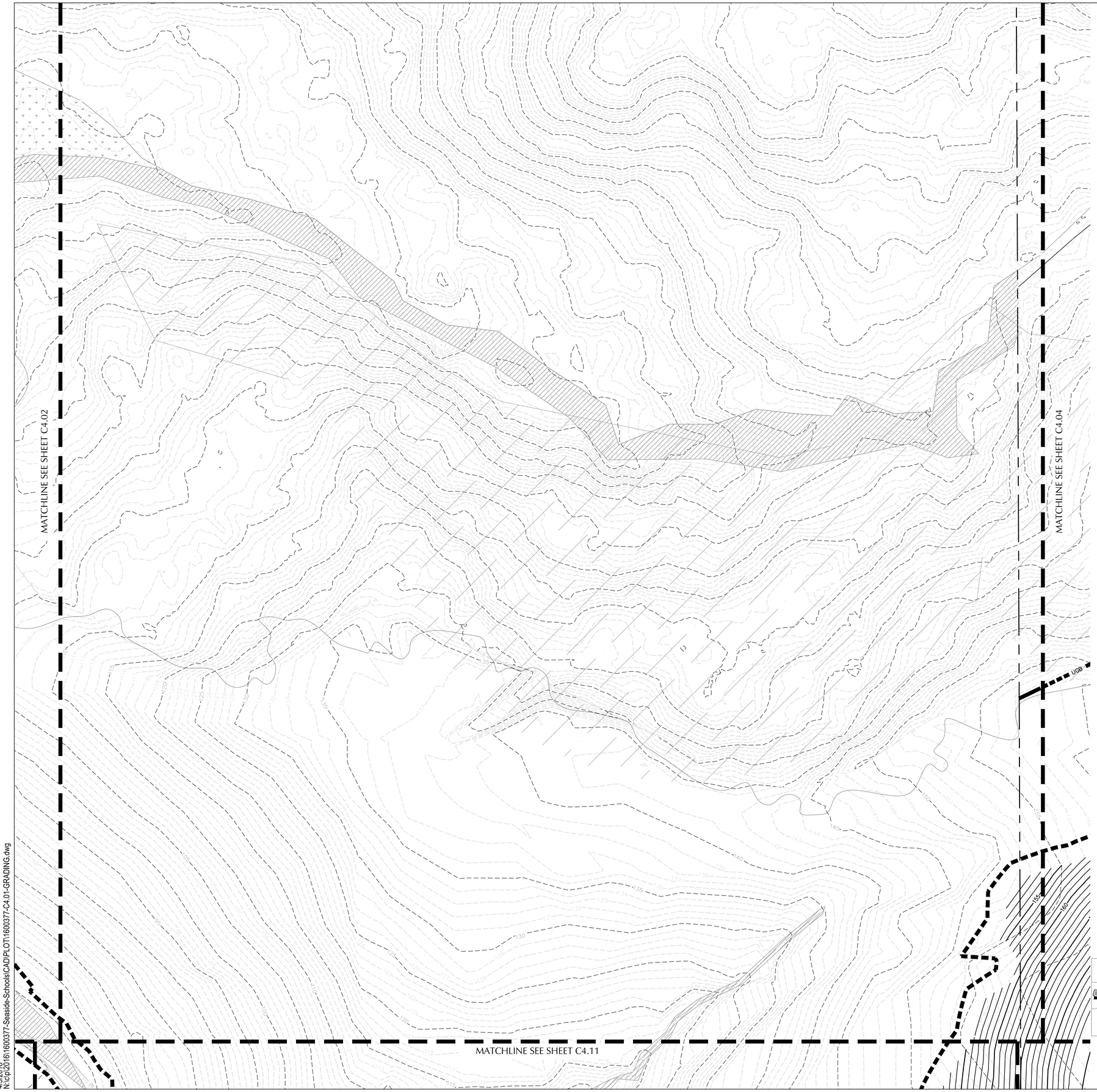

SHEET NOTES

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GRADING QUANTITIES

CUT (CY)	FILL (CY)	NET (CY)
204,700	222,000	17,300 (FILL)

TOTAL IMPACT AREA = 1,176,700 SF (27 ACRES)

NOTE:

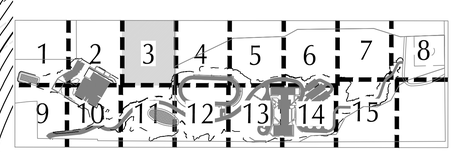
THESE QUANTITIES DO NOT ACCOUNT FOR STRIPPING OF THE SITE. GEODESIGN RECOMMENDED APPROXIMATELY 3–INCHES ACROSS THE SITE. ADDITIONALLY, ROAD SURFACING, BASE COURSE, DRAINAGE COURSE UNDER THE FIELD, AND BUILDING FOUNDATIONS ARE NOT INCORPORATED IN THESE QUANTITIES.

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
	SPOT ELEVATION
	DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
XX.XX XX	
BC	BOTTOM OF CURB
BS	BOTTOM OF STAIR
EG	EXISTING GRADE
FF	FINISHED FLOOR
FG TW	FINISHED GRADE TOP OF WALL
FG BW	FINISHED GRADE BOTTOM OF WALL
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
TS	TOP OF STAIR
(XXX.X±)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

- 49 — EX. CONTOUR MINOR
- 50 — EX. CONTOUR MAJOR
- 49 — CONTOUR MINOR (FG)
- 50 — CONTOUR MAJOR (FG)
- SITE WORK LIMIT
- CANOPY DRIP LINE



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

BRIC ARCHITECTURE, INC.
1233 NW NORTHRUP STREET, SUITE 100
PORTLAND, OR 97209 T 503 595 4900

New Middle School / High School
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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

GRADING PLAN

C4.03

4/5/2018
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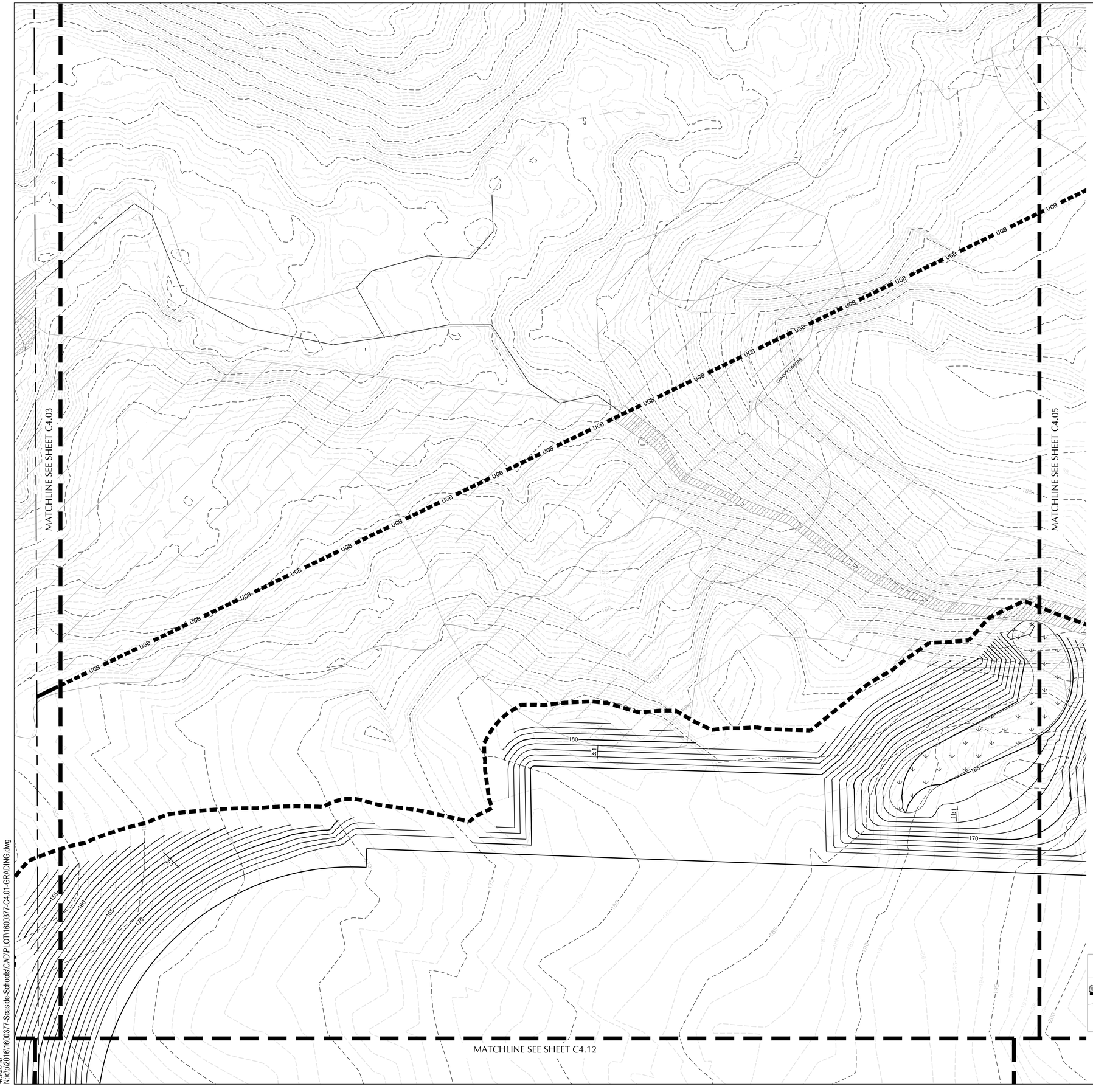

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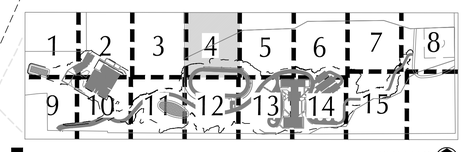

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

GRADING PLAN

C4.04

4/5/2018
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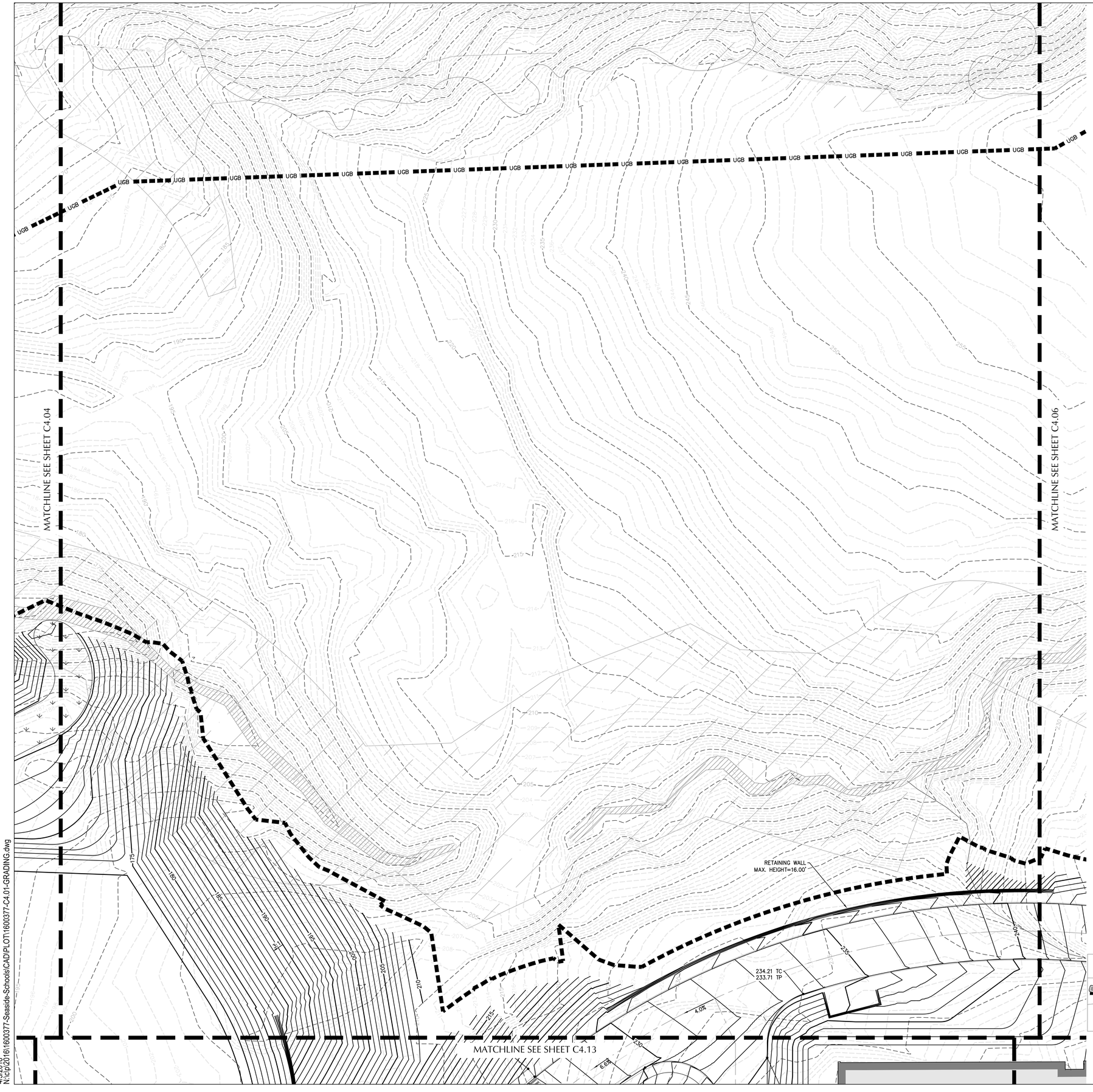

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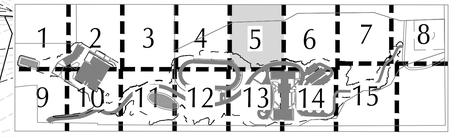

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date	4/5/2018
revisions	
project #	17007

GRADING PLAN

C4.05

4/5/2018
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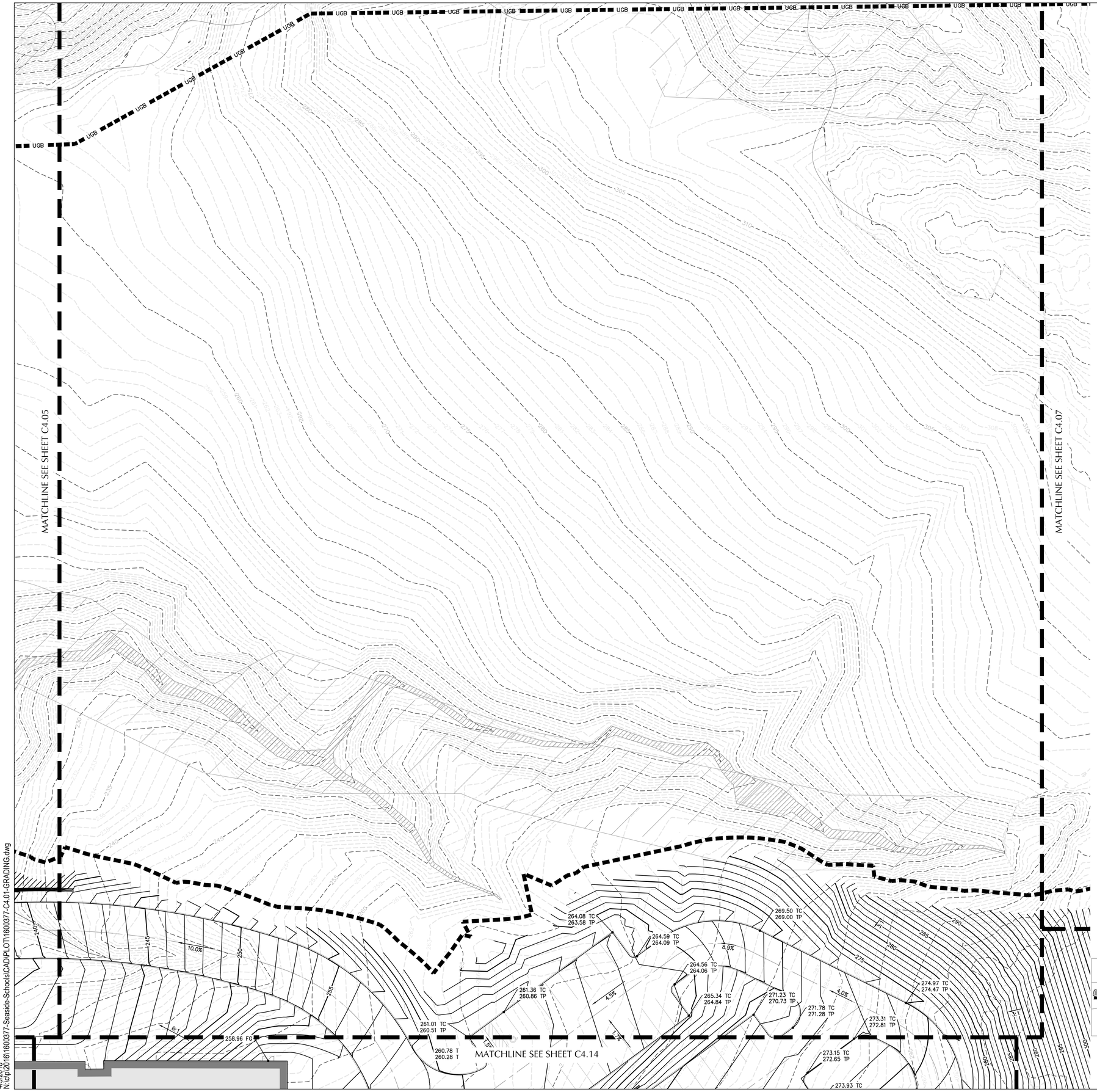

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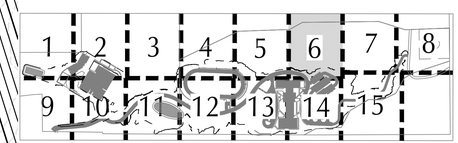

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	

project # 17007

GRADING PLAN

C4.06

4/5/2018
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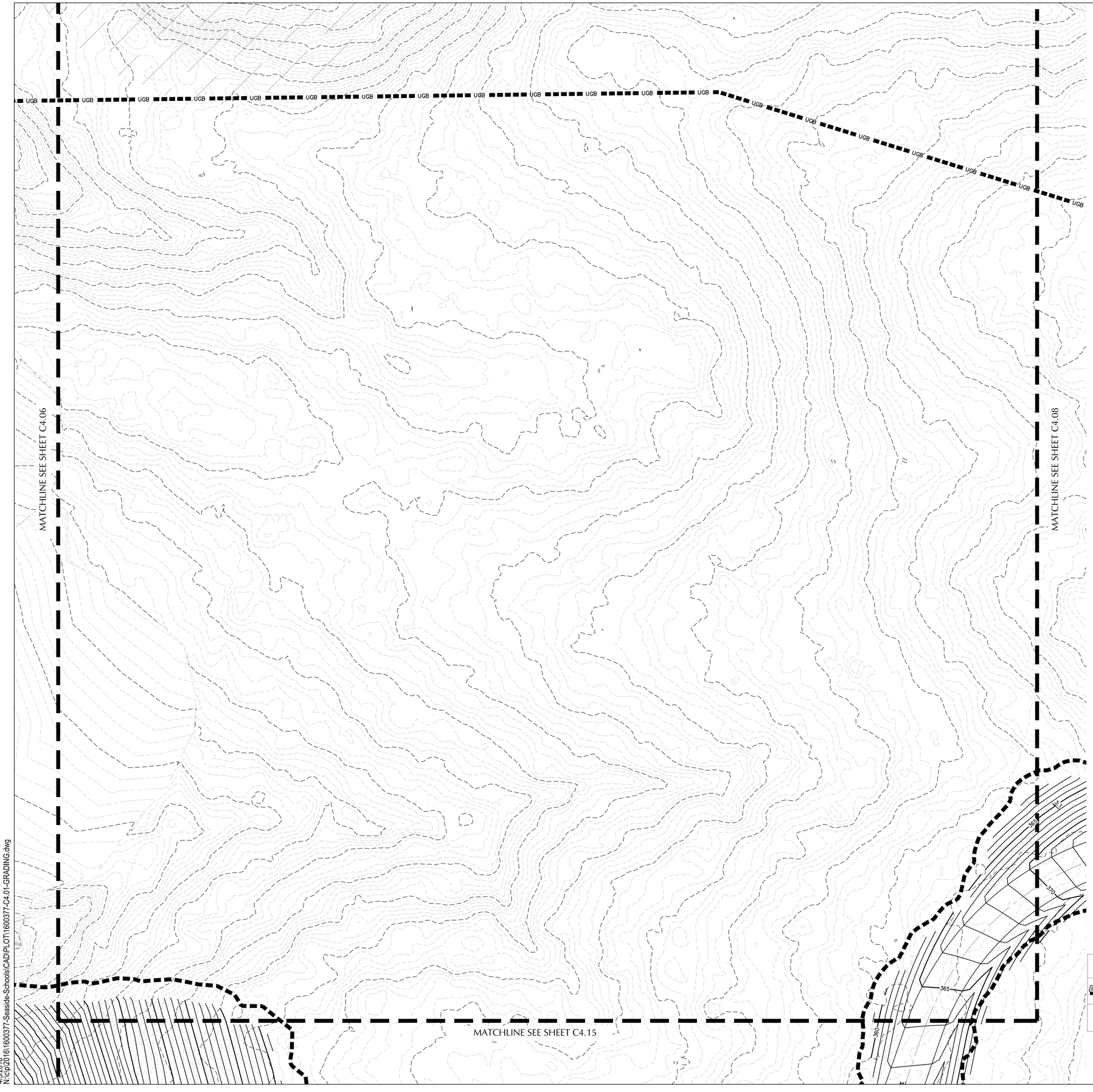

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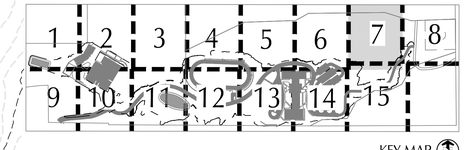

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

GRADING PLAN

C4.07

4/5/2018
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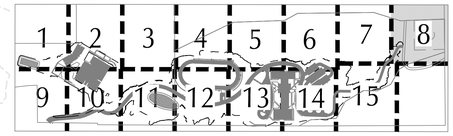

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

GRADING PLAN

C4.08

4/5/2018
N:\cip\2016\16000377-Seaside-Schools\CAD\PLOT\16000377-C4.01-GRADING.dwg

MATCHLINE SEE SHEET C4.01

MATCHLINE SEE SHEET C4.10

RETAINING WALL
MAX. HEIGHT=5.00'

50.45 BW

53.00 TW

50.87 BW

55.00 TW

4.1%

51.00 TW

(52.2±) FG/EG

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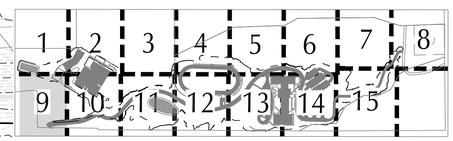

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revisions	
project #	17007

GRADING PLAN

C4.09

4/5/2018
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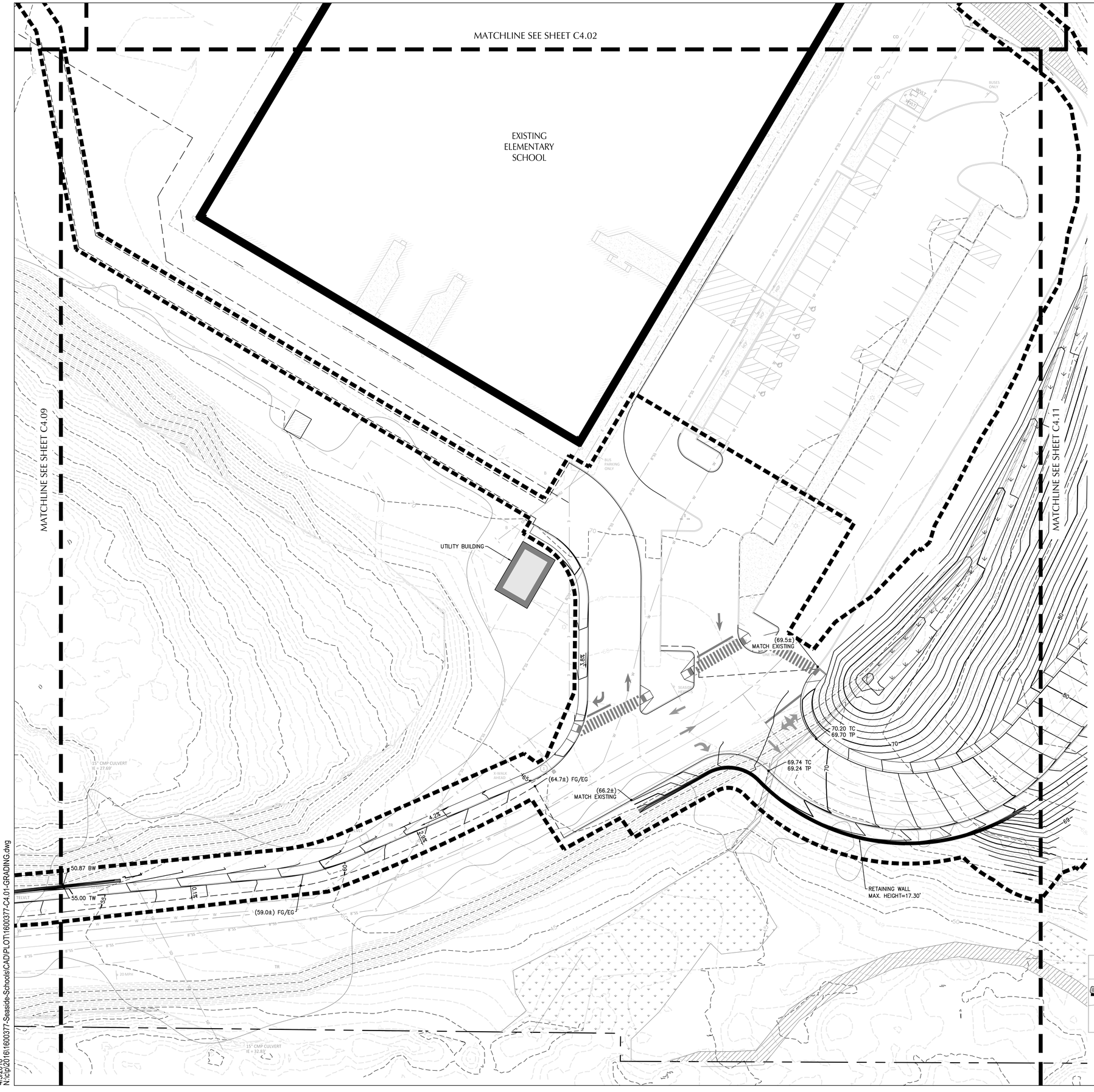

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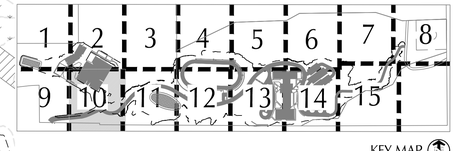

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GRADING PLAN

C4.10

4/5/2018
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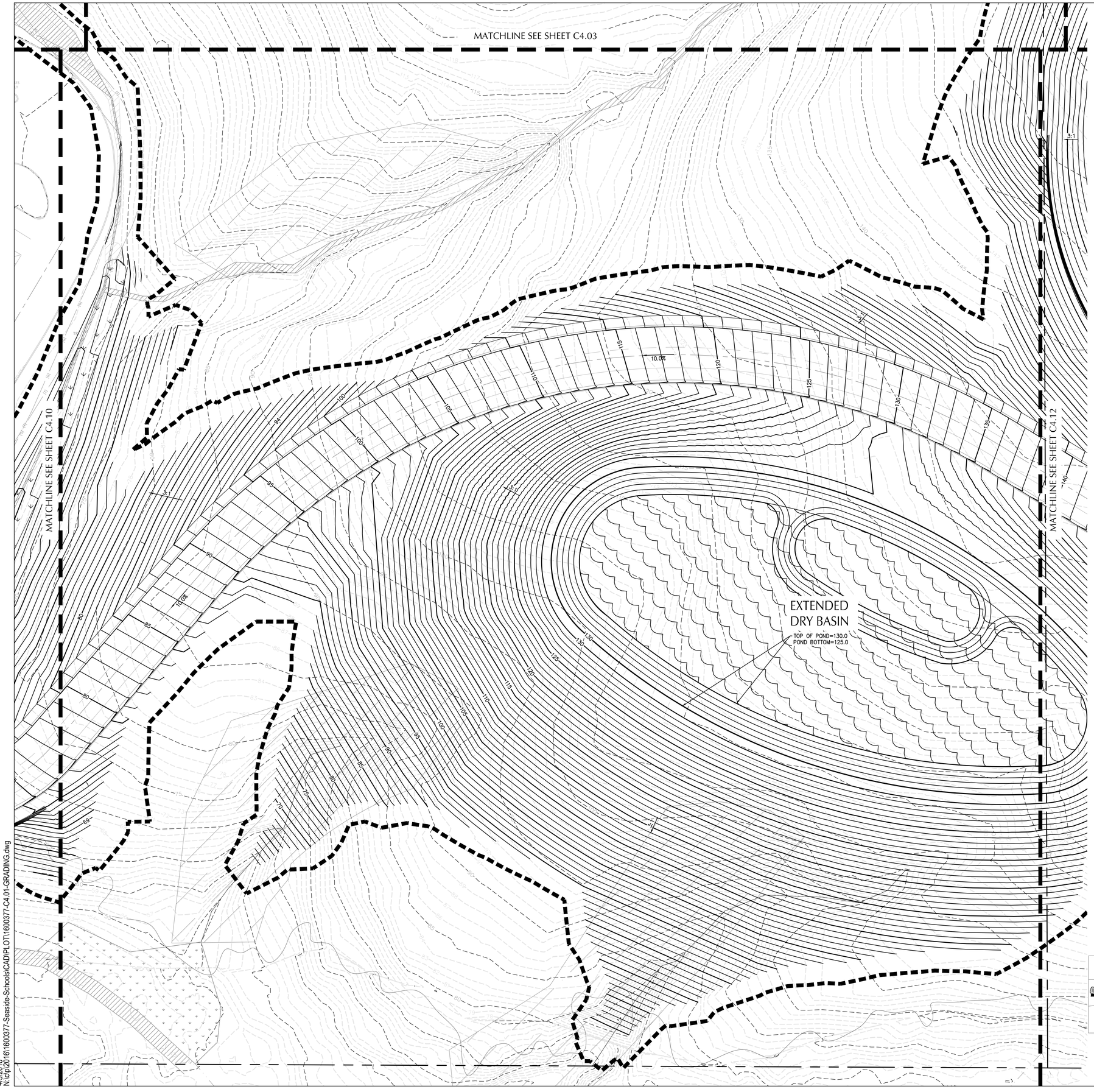

SHEET NOTES

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2. LANDINGS ON ACCESSIBLE ROUTES SHALL NOT EXCEED 2% IN ANY DIRECTION.
3. ALL ACCESSIBLE ROUTES SHALL COMPLY WITH CURRENT ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES (ADAAG).

GRADING QUANTITIES

CUT (CY)	FILL (CY)	NET (CY)
204,700	222,000	17,300 (FILL)

TOTAL IMPACT AREA = 1,176,700 SF (27 ACRES)

NOTE:

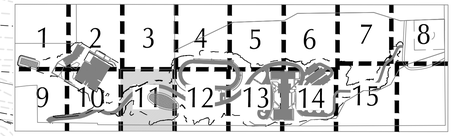
THESE QUANTITIES DO NOT ACCOUNT FOR STRIPPING OF THE SITE. GEODESIGN RECOMMENDED APPROXIMATELY 3-INCHES ACROSS THE SITE. ADDITIONALLY, ROAD SURFACING, BASE COURSE, DRAINAGE COURSE UNDER THE FIELD, AND BUILDING FOUNDATIONS ARE NOT INCORPORATED IN THESE QUANTITIES.

GRADING LABEL LEGEND

CALLOUT	DESCRIPTION
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
XX.XX XX	SPOT ELEVATION DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
BC	BOTTOM OF CURB
BS	BOTTOM OF STAIR
EG	EXISTING GRADE
FF	FINISHED FLOOR
FG TW	FINISHED GRADE TOP OF WALL
FG BW	FINISHED GRADE BOTTOM OF WALL
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
TS	TOP OF STAIR
(XXX.X±)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

- 49 — EX. CONTOUR MINOR
- 50 — EX. CONTOUR MAJOR
- 49 — CONTOUR MINOR (FG)
- 50 — CONTOUR MAJOR (FG)
- SITE WORK LIMIT
- CANOPY DRIP LINE



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

BRIC ARCHITECTURE, INC.
1233 NW NORTHRUP STREET, SUITE 100
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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

GRADING PLAN

C4.11

4/5/2018
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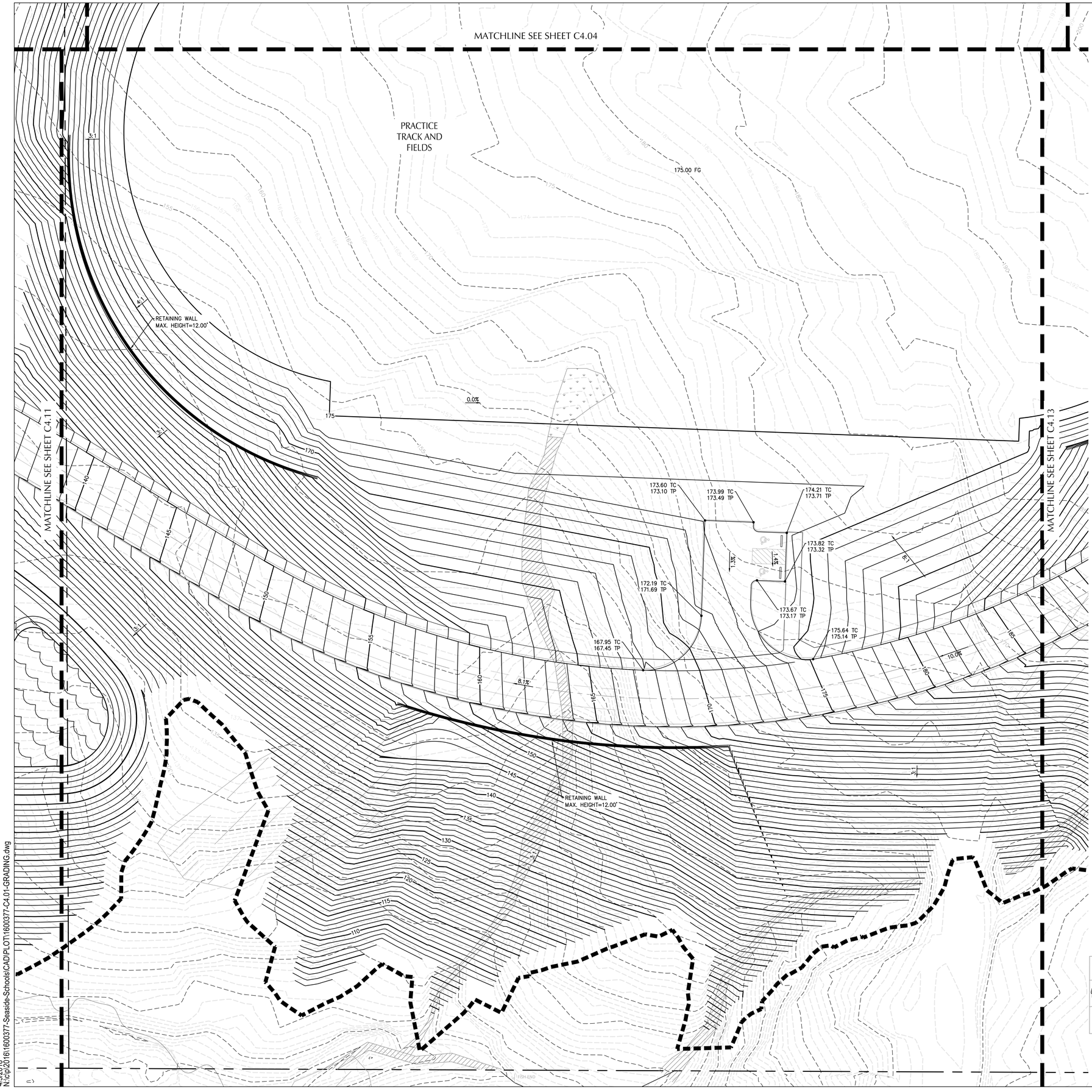

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GRADING QUANTITIES

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204,700	222,000	17,300 (FILL)

TOTAL IMPACT AREA = 1,176,700 SF (27 ACRES)

NOTE:

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GRADING LABEL LEGEND

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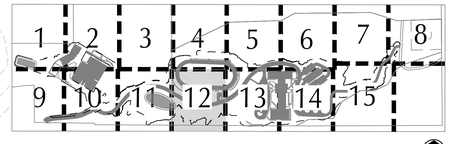
X.X%	GRADING SLOPE AND DIRECTION (DOWNHILL)
	SPOT ELEVATION
	DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
XX.XX XX	
BC	BOTTOM OF CURB
BS	BOTTOM OF STAIR
EG	EXISTING GRADE
FF	FINISHED FLOOR
FG TW	FINISHED GRADE TOP OF WALL
FG BW	FINISHED GRADE BOTTOM OF WALL
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
TS	TOP OF STAIR
(XXX.X±)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

- 49 — EX. CONTOUR MINOR
- 50 — EX. CONTOUR MAJOR
- 49 — CONTOUR MINOR (FG)
- 50 — CONTOUR MAJOR (FG)
- SITE WORK LIMIT
- CANOPY DRIP LINE



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

GRADING PLAN

C4.12

4/5/2018
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MATCHLINE SEE SHEET C4.05

MATCHLINE SEE SHEET C4.12

MATCHLINE SEE SHEET C4.14

RETAINING WALL
MAX. HEIGHT=17.30

RETAINING WALL
MAX. HEIGHT=3.0'

RETAINING WALL
MAX. HEIGHT=13.30'

FFE LEVEL 1
244.0

FFE LEVEL 1
244.0

226.51 TP
227.43 TC
226.93 TP
230.49 TC
229.99 TP
226.12 TC
225.62 TP
225.84 TP
235.50 TC
235.00 TP
243.96 FG
239.10 TP
239.39 TC
238.89 TP
240.19 TC
239.69 TP
233.31 TC
232.81 TP
232.78 TC
232.28 TP
235.21 TC
234.71 TP
231.57 TC
231.07 TP
230.97 TC
230.47 TP
233.69 TC
233.19 TP
240.66 TC
240.16 TP
240.87 TC
240.37 TP
230.52 TC
230.02 TP
231.29 TC
230.79 TP
233.26 TC
232.76 TP
240.73 TC
240.23 TP
228.83 TC
228.33 TP
229.48 TC
228.98 TP
238.44 TC
237.94 TP
230.76 TC
230.26 TP
238.86 TC
238.36 TP
231.57 TC
231.07 TP

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204,700	222,000	17,300 (FILL)

TOTAL IMPACT AREA = 1,176,700 SF (27 ACRES)

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	DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG
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- EX. CONTOUR MAJOR
- CONTOUR MINOR (FG)
- CONTOUR MAJOR (FG)
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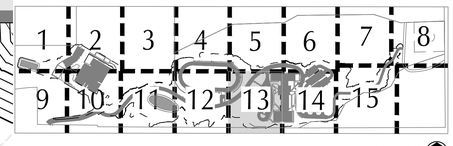

KEY MAP

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

GRADING PLAN

C4.13

4/5/2018
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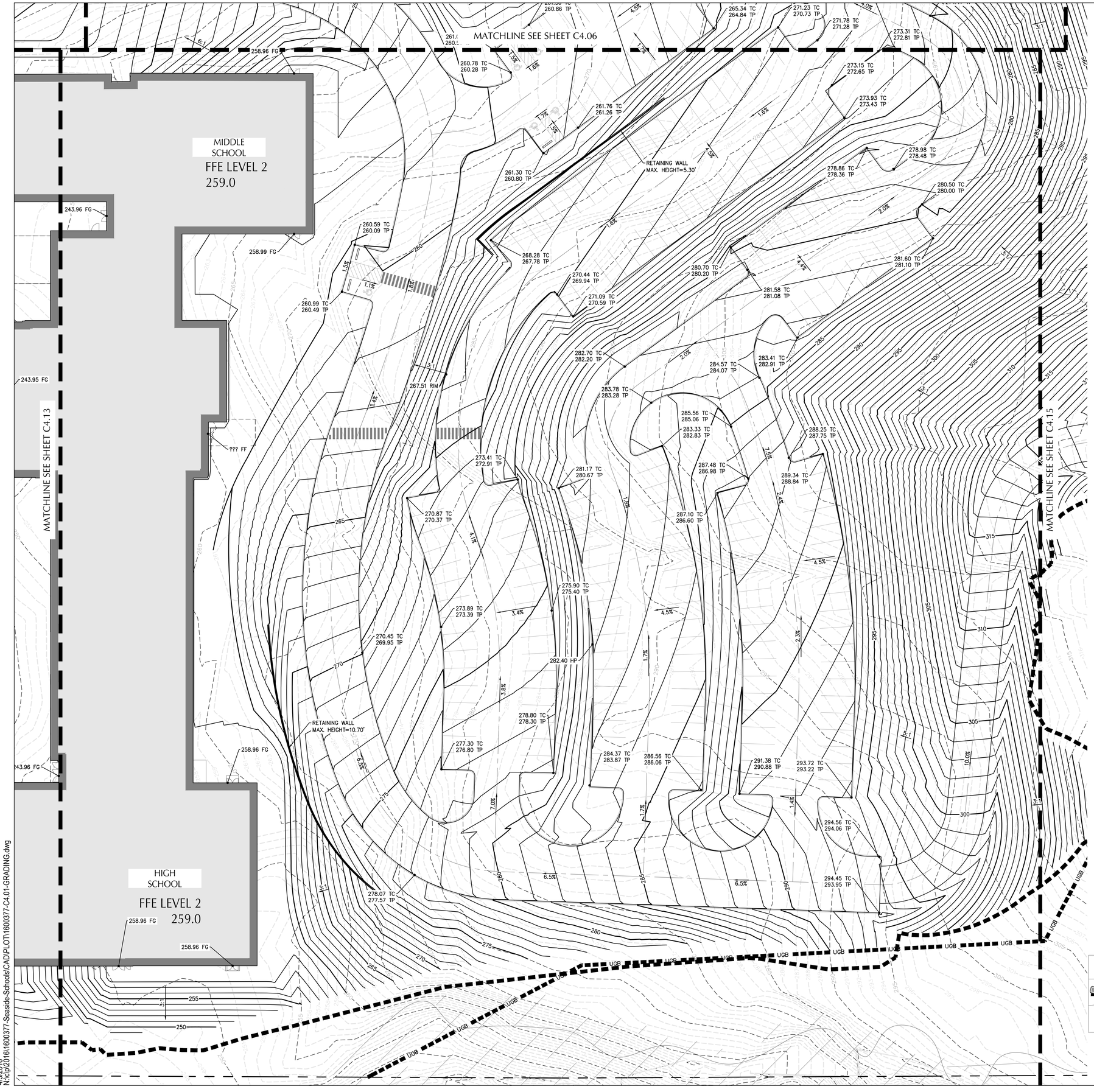

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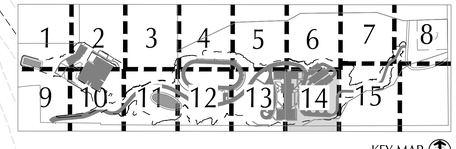

KEY MAP

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revisions	
project #	17007

GRADING PLAN

C4.14

4/5/2018
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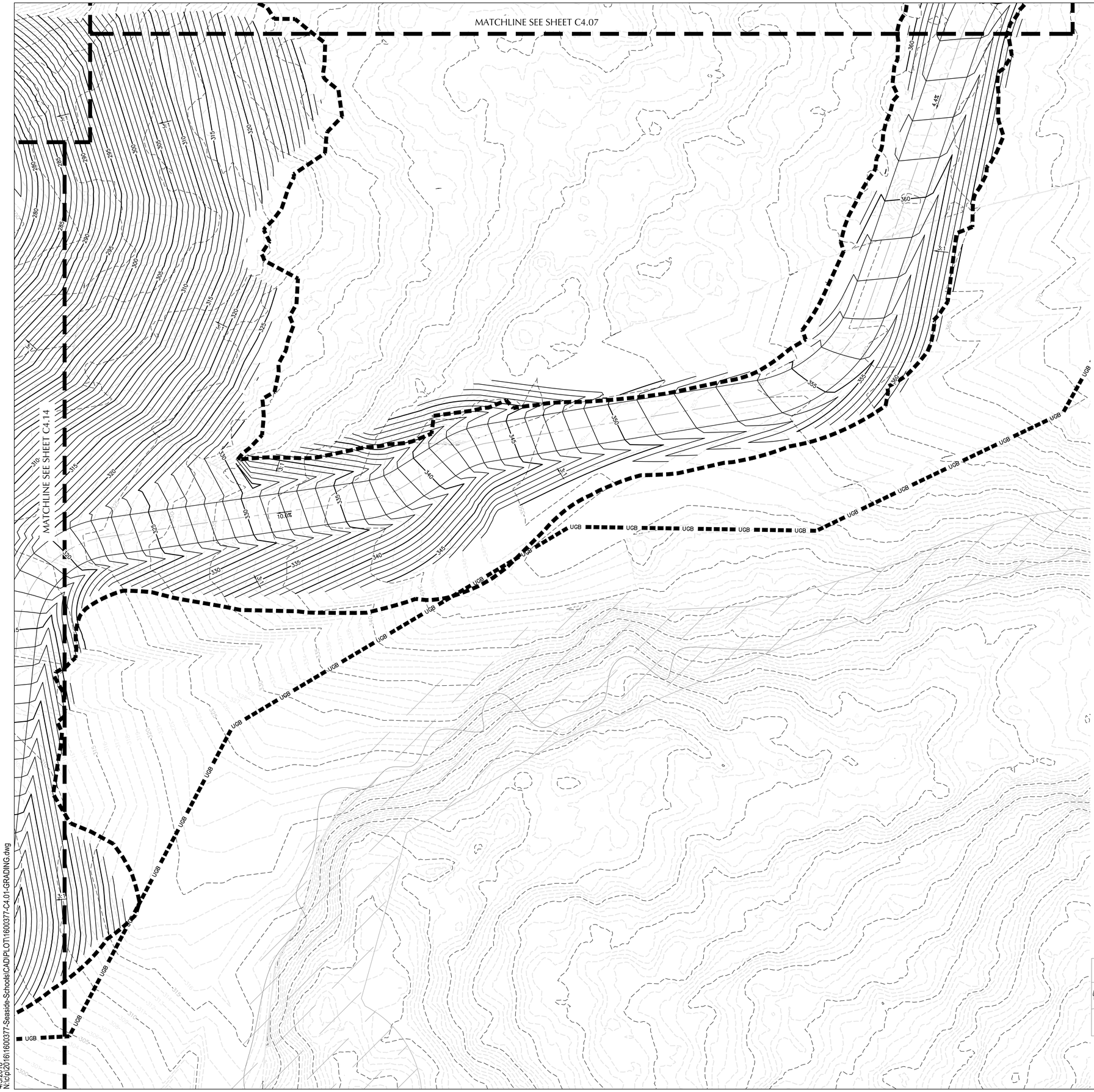

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TG	TOP OF GROUND
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TS	TOP OF STAIR
(XXX.X±)	EXISTING GRADE (MATCH WHERE APPLICABLE)

SHEET LEGEND

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50	EX. CONTOUR MAJOR
49	CONTOUR MINOR (FG)
50	CONTOUR MAJOR (FG)
	SITE WORK LIMIT
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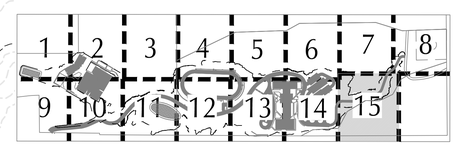

KEY MAP

SCALE 1 INCH = 20 FEET

20 0 20 40

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

GRADING PLAN

C4.15

4/5/2018
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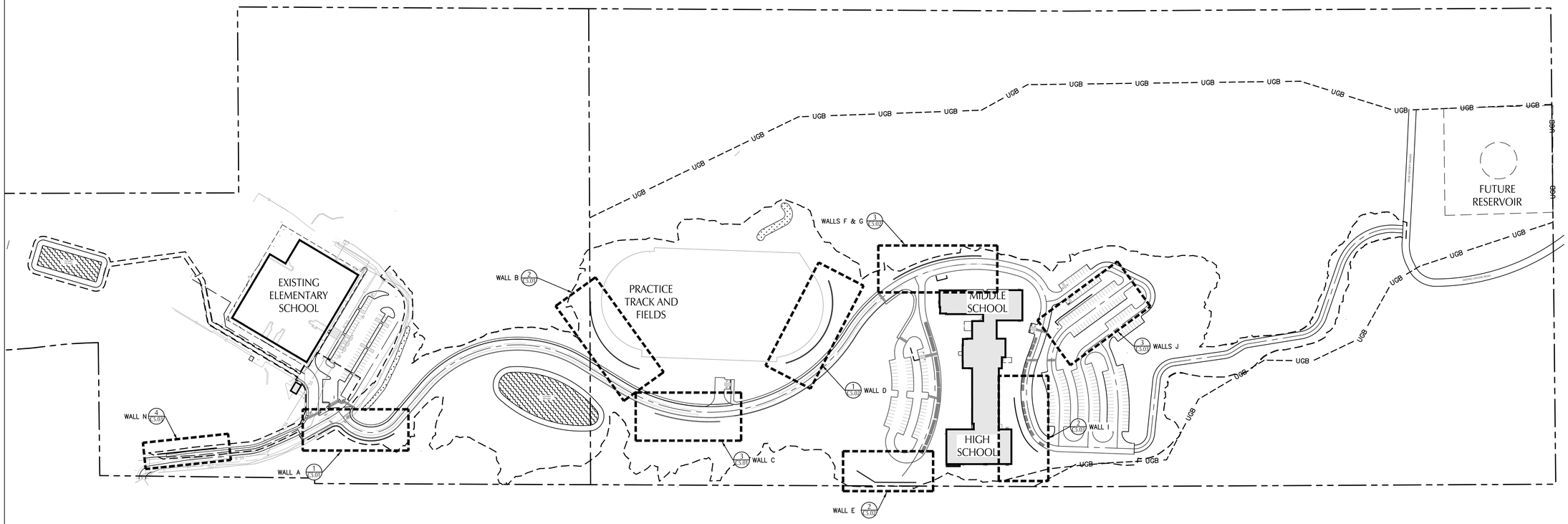

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revisions	
project #	17007

OVERALL RETAINING WALL PLAN

C5.00

4/5/2018
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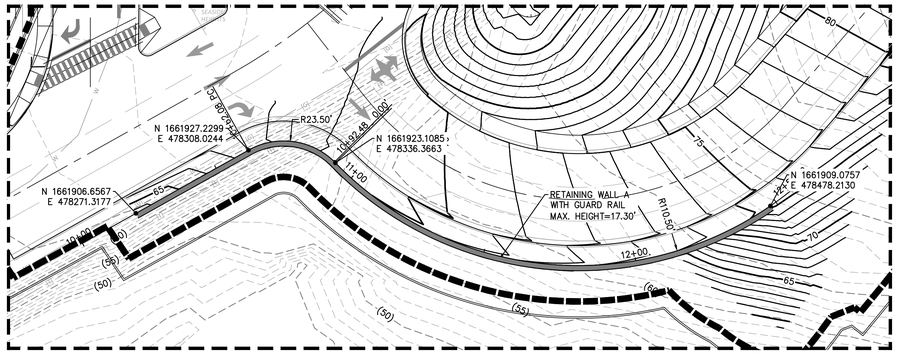
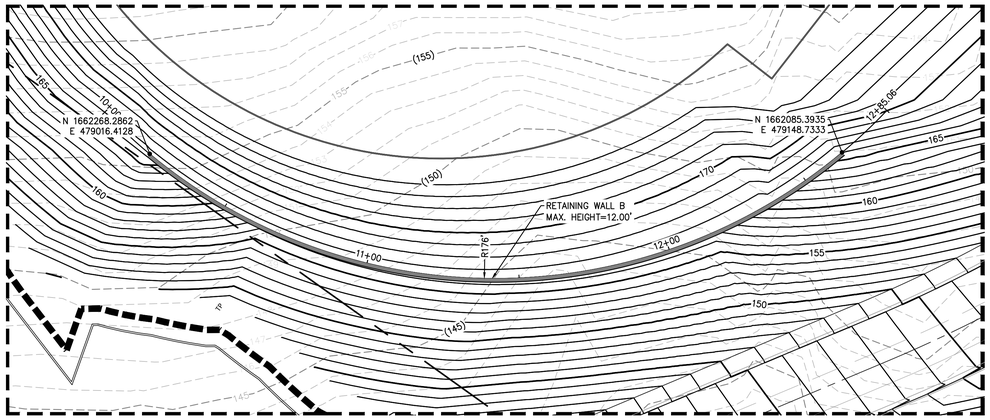
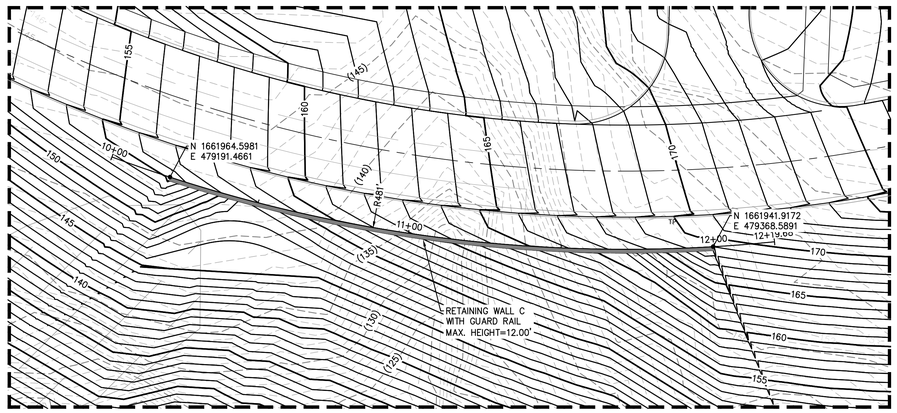


1 WALL A
SCALE: 1" = 20'



2 WALL B
SCALE: 1" = 20'



3 WALL C
SCALE: 1" = 20'

SCALE 1 INCH = 20 FEET
20 0 20 40

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phase	Bid Package 1
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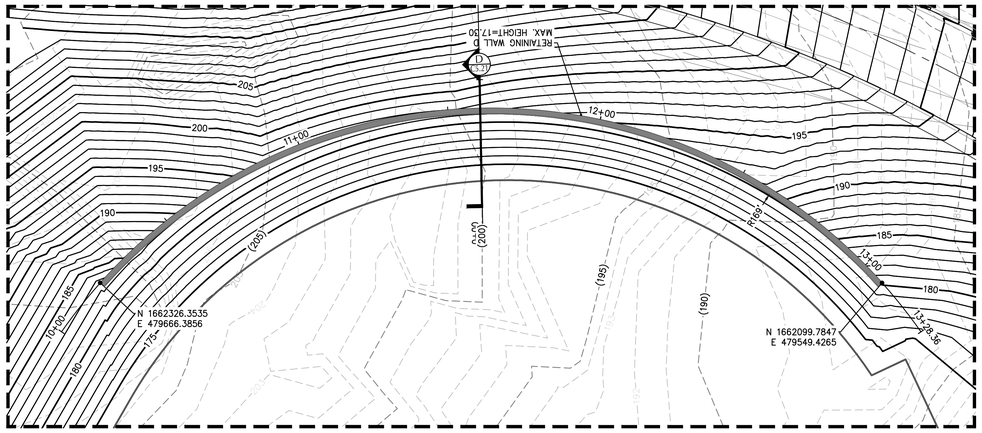
revisions	
project #	17007

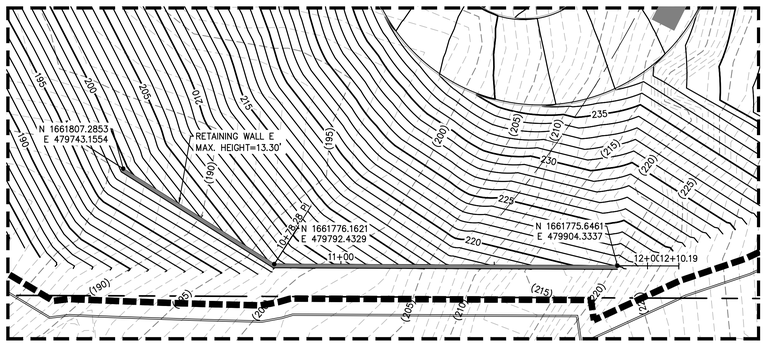
RETAINING WALL ENLARGEMENT

C5.01

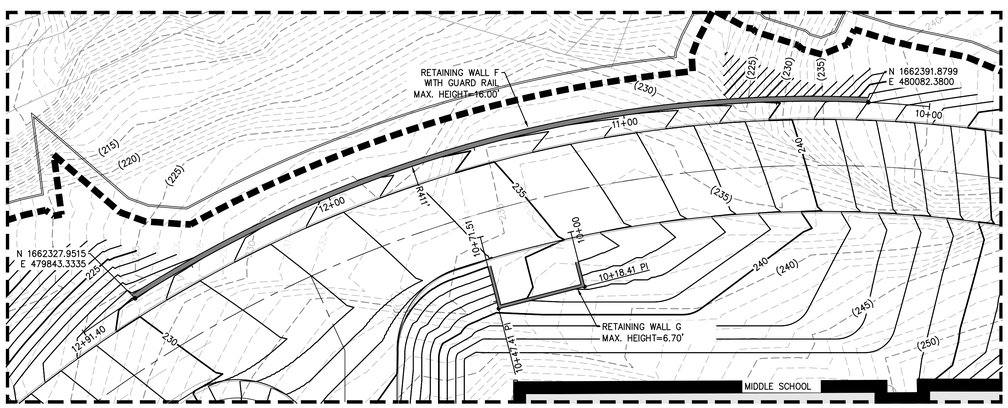
4/5/2018
N:\cip\2016\16003377-Seaside-Schools\CAD\PLOT\16003377-C5.01-WALL.dwg



1 RETAINING WALL D
SCALE: 1" = 20'



2 RETAINING WALL E
SCALE: 1" = 20'



3 RETAINING WALLS F & G
SCALE: 1" = 20'

SCALE 1 INCH = 20 FEET
20 0 20 40

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revisions	
project #	17007

RETAINING WALL ENLARGEMENT

C5.02

4/5/2018
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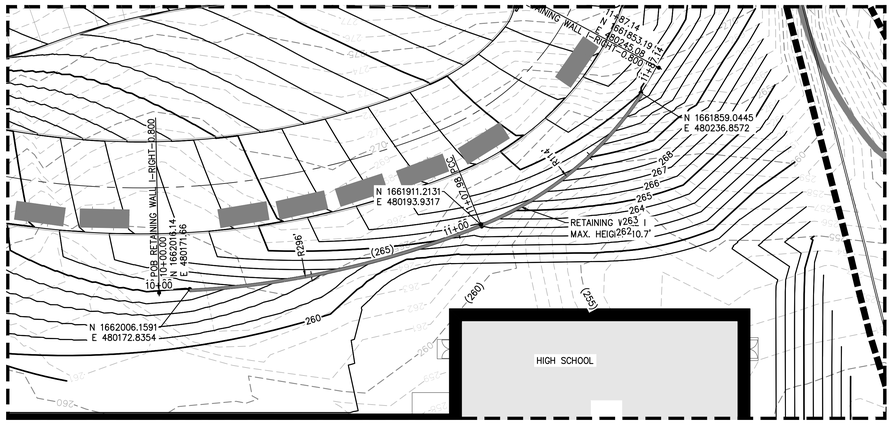
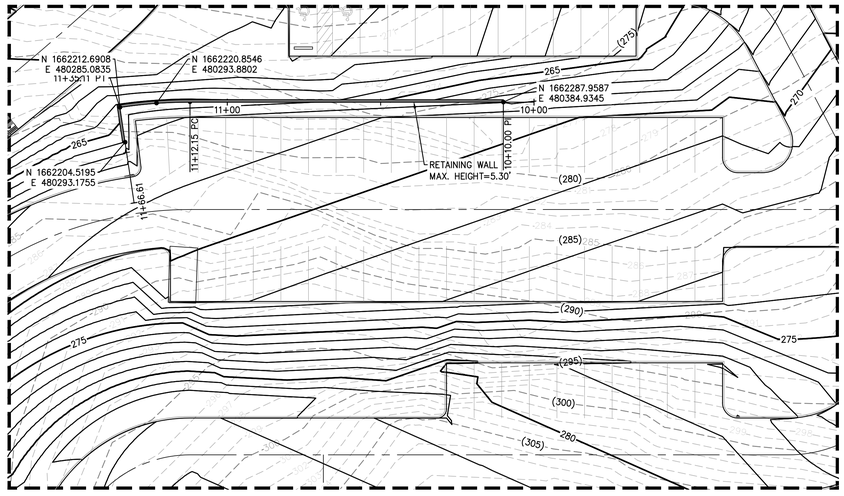
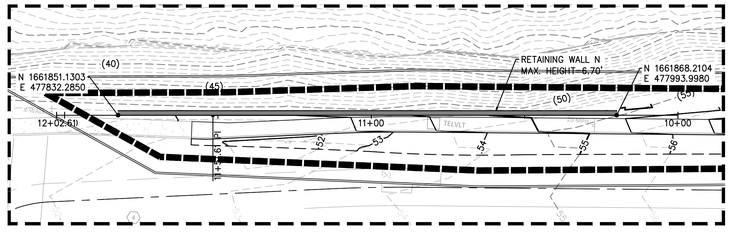


2 WALL I
SCALE: 1" = 20'



3 RETAINING WALL J
SCALE: 1" = 20'



4 RETAINING WALL N
SCALE: 1" = 20'

SCALE 1 INCH = 20 FEET
20 0 20 40

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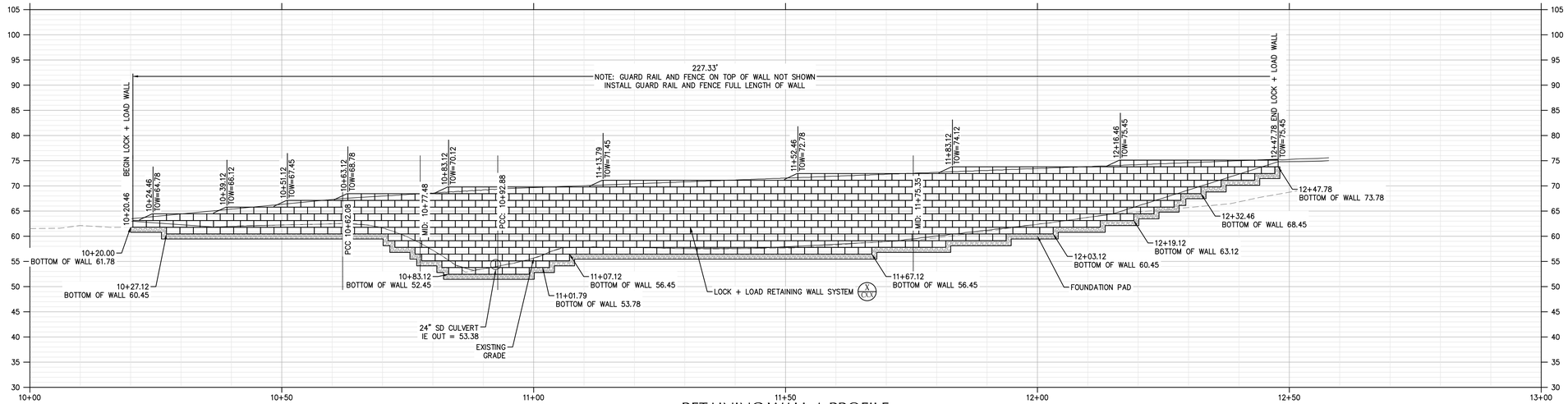
DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

RETAINING WALL ENLARGEMENT

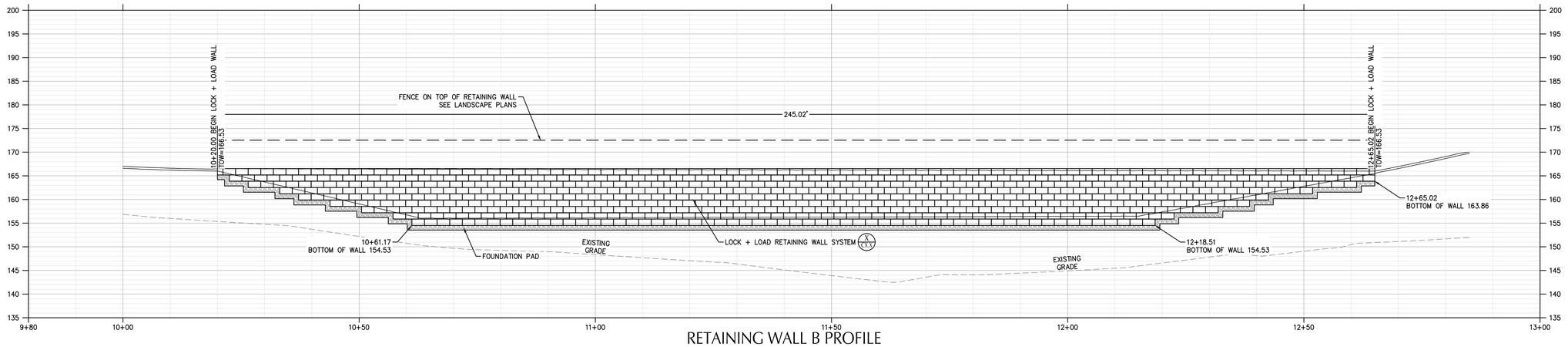
C5.03

4/5/2018
N:\cip\2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C5.01-WALL.dwg



RETAINING WALL A PROFILE

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'



RETAINING WALL B PROFILE

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'

SCALE 1 INCH = 20 FEET
20 0 20 40

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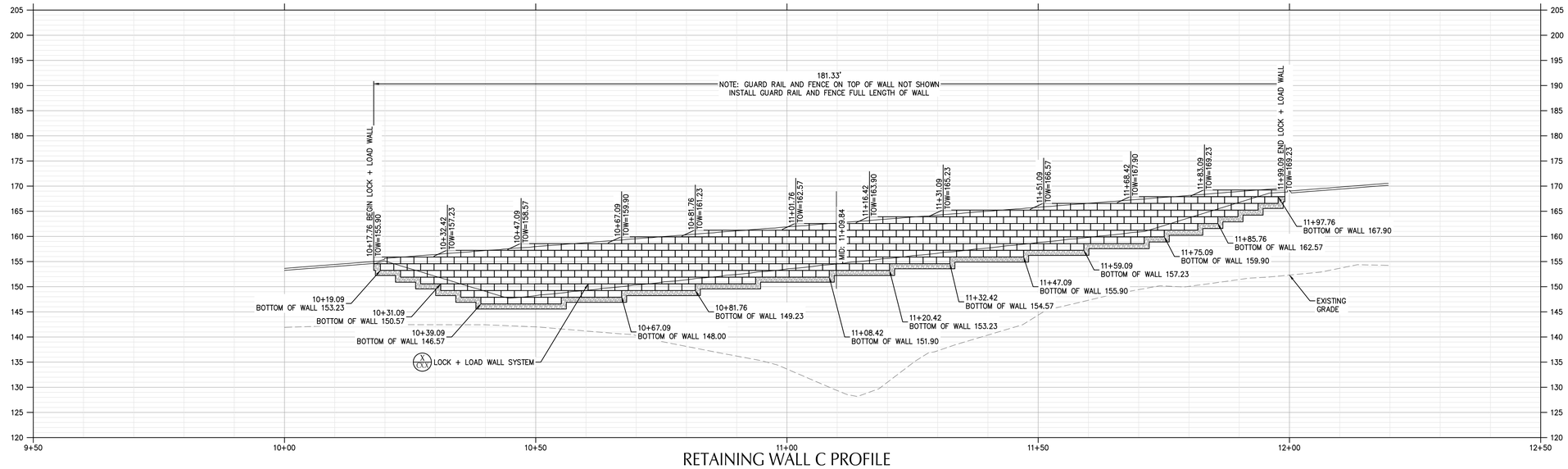
DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

RETAINING WALL PROFILES

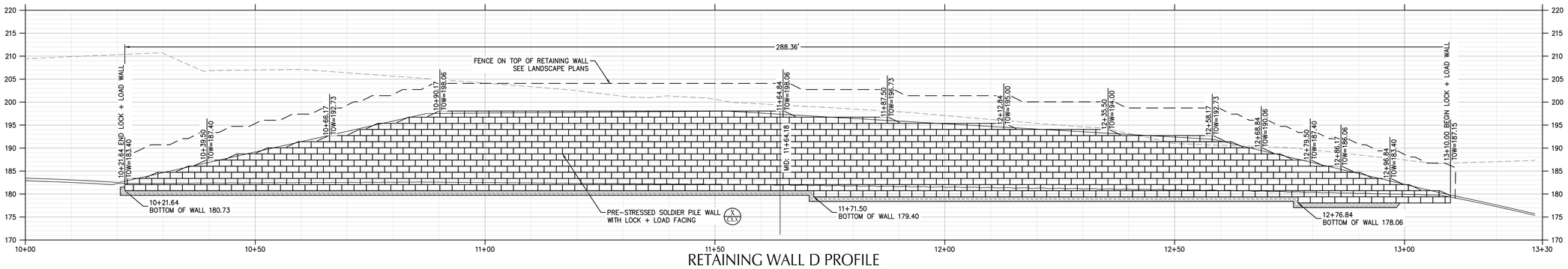
C5.20

4/5/2018
N:\cip\2016\16003 77-Seaside-Schools\CAD\PLOT\16003 77-C5.20-WALL PROF.dwg



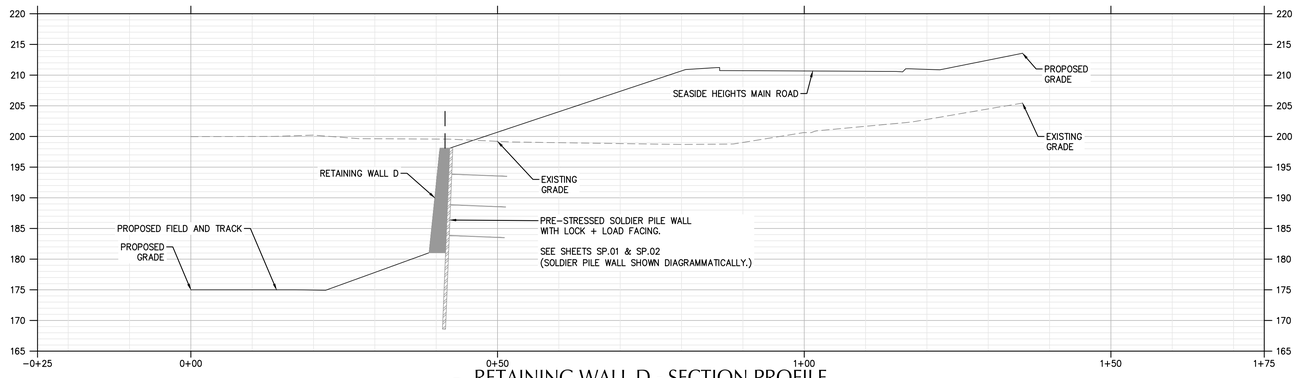
RETAINING WALL C PROFILE

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'



RETAINING WALL D PROFILE

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'



4 / C5.21 RETAINING WALL D - SECTION PROFILE

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'

SCALE 1 INCH = 20 FEET
20 0 20 40

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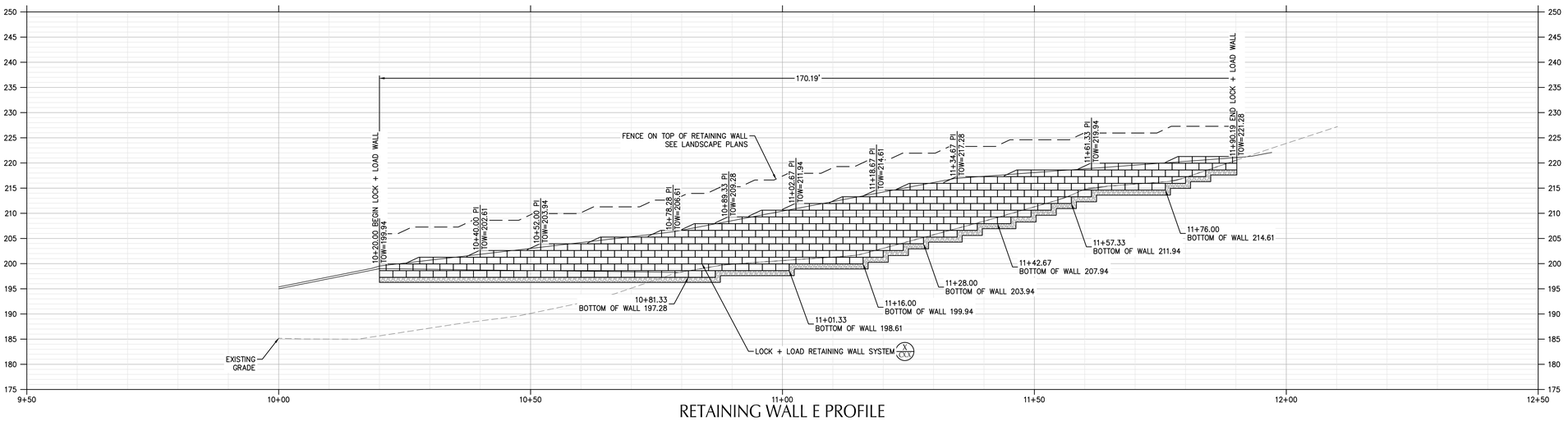
phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

RETAINING WALL PROFILES

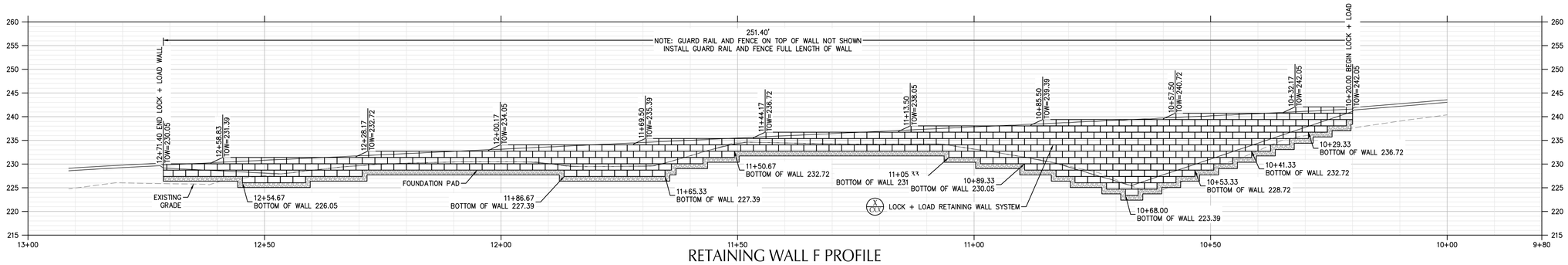
C5.21

4/5/2018
N:\cip\2016\16003377-Seaside-Schools\CAD\PLOT\16003377-C5.20-WALL PROF.dwg



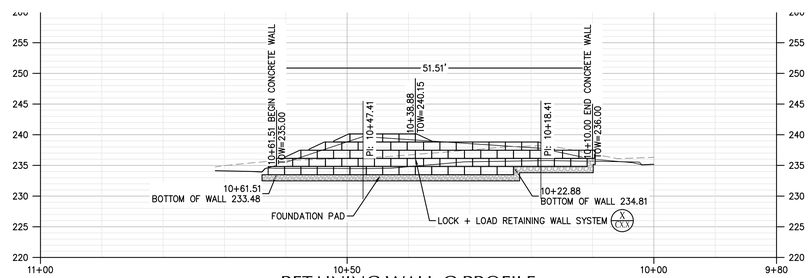
RETAINING WALL E PROFILE

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'



RETAINING WALL F PROFILE

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'



RETAINING WALL G PROFILE

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'

SCALE 1 INCH = 20 FEET
20 0 20 40

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project #	17007

RETAINING WALL PROFILES

C5.22

4/5/2018
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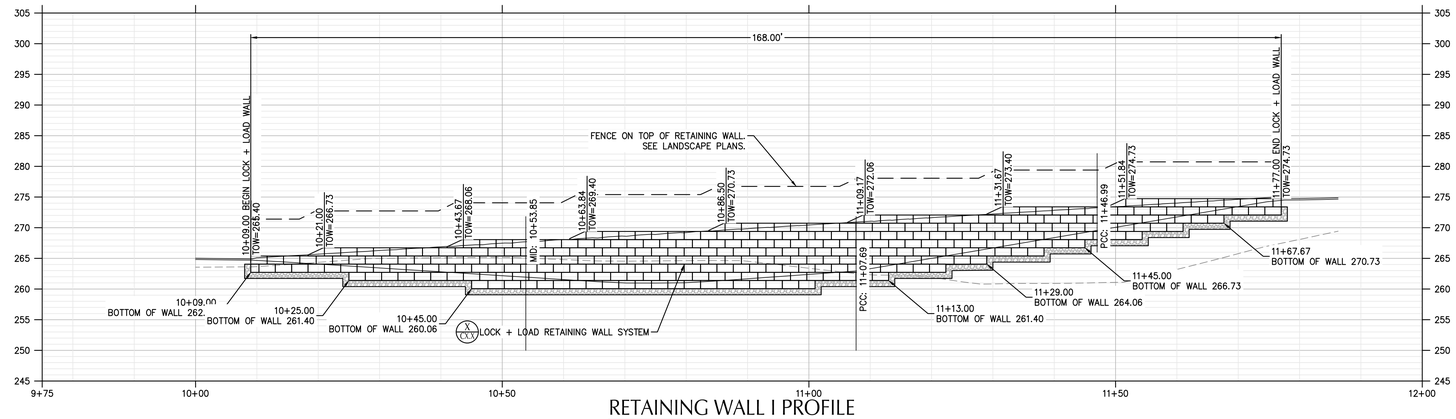
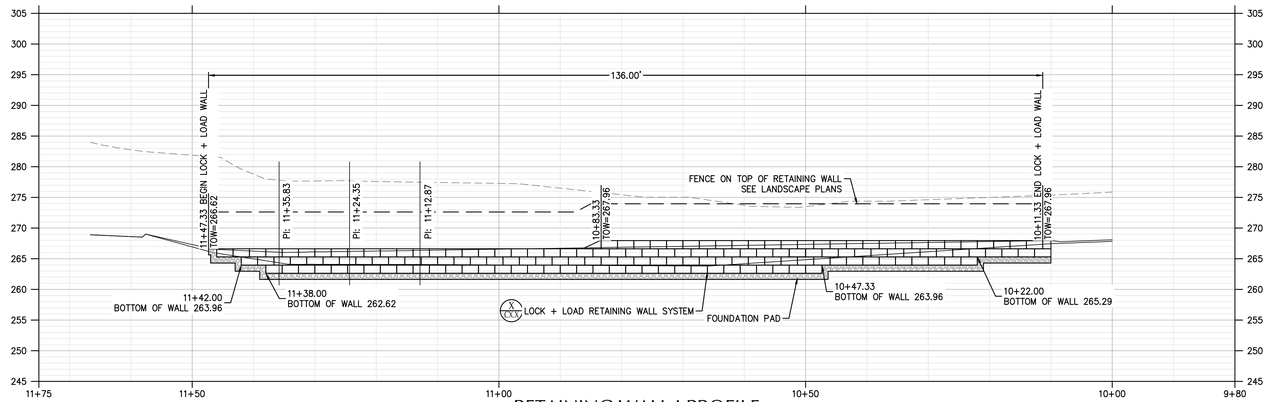


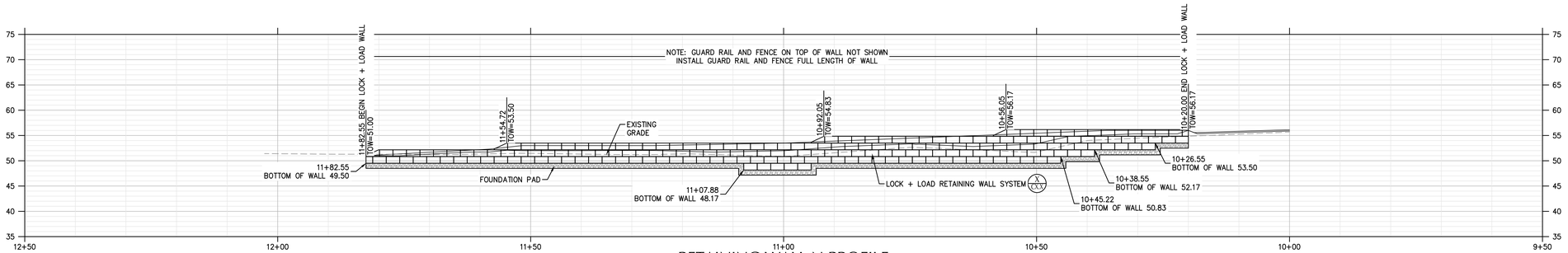
RETAINING WALL I PROFILE

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'



RETAINING WALL J PROFILE

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'



RETAINING WALL N PROFILE

SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'

SCALE 1 INCH = 20 FEET
20 0 20 40

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RETAINING WALL PROFILES

C5.23

4/5/2018
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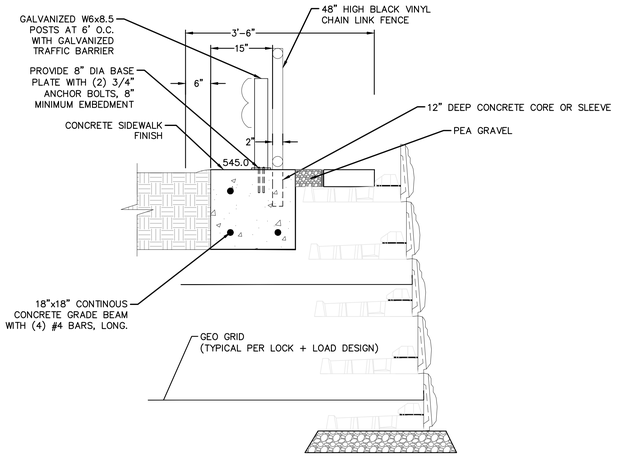
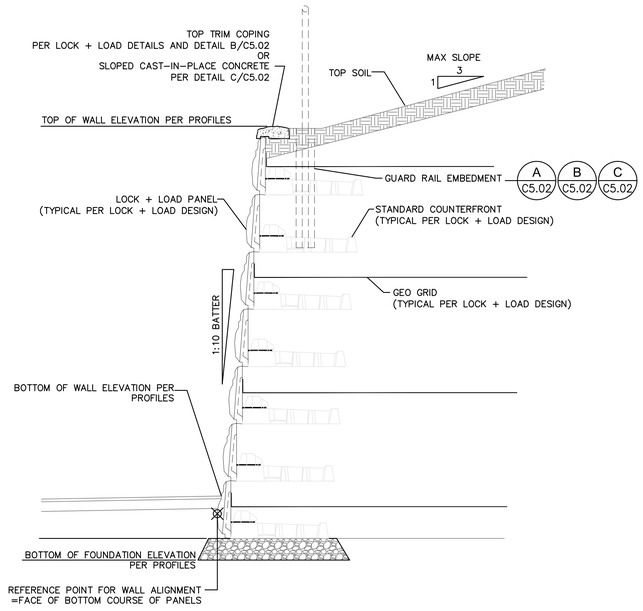
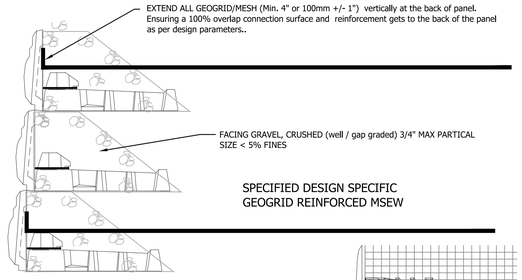
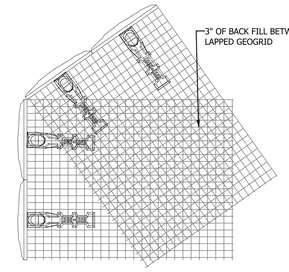


5 C5.01 VEHICULAR GUARD RAIL
SCALE: NONE

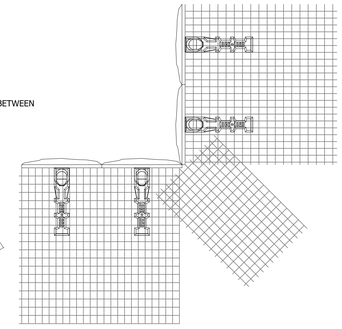


4 C5.01 TYPICAL MECHANICAL STABLIZED LOCK + LOAD RETAINING WALL
SCALE: NONE

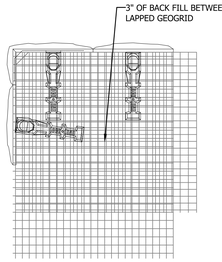




PLAN VIEW OBTUSE OUTSIDE CORNER 90-180 DEGREES

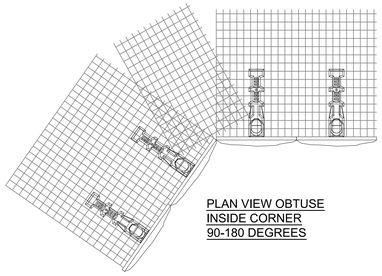


PLAN VIEW ORTHOGONAL INSIDE CORNER 90 DEGREE



PLAN VIEW ORTHOGONAL OUTSIDE CORNER 90 DEGREE

ALL GEOGRID MUST BE 100% OVER COUNTERFORT AND EXTEND TO BACK OF PANEL AND VERTICAL FOR 4" GEOGRID 100% COVERAGE UNLESS SPECIFIED OTHERWISE.

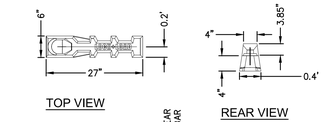


PLAN VIEW OBTUSE INSIDE CORNER 90-180 DEGREES

1 SOIL REINFORCEMENT LAYER
SCALE: NTS

DETAILS PROVIDED ON THIS SHEET ARE FOR REFERENCE ONLY.

CONTRACTOR SHALL REFERENCE DETAILS AND SPECIFICATIONS PROVIDED BY LOCK + LOAD CONSTRUCTION.



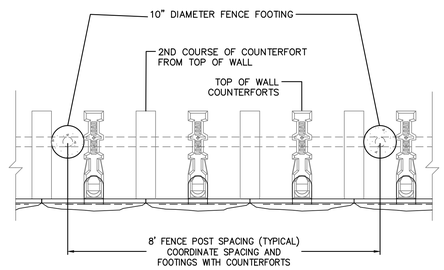
TOP VIEW

REAR VIEW

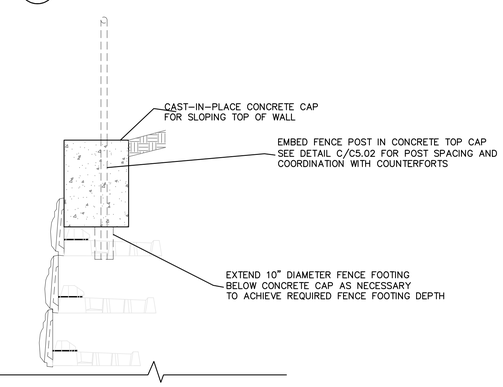
SIDE VIEW

NOTES:
1) MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS 5500 PSI 42 mpa
2) 6% AIR ENTRAINMENT
3) 3 LBS STRUCTURAL FIBER PER CUBIC YARD

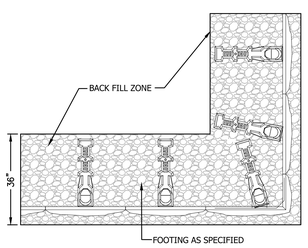
4 STANDARD COUNTERFORT
SCALE: NTS



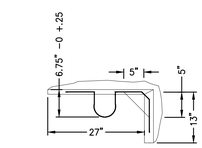
A C5.02 FENCE POST SPACING DETAIL
SCALE: NONE



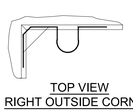
C C5.02 SLOPED CAST-IN-PLACE CONCRETE
SCALE: NONE



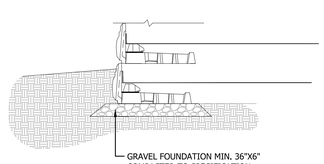
PLAN VIEW FOUNDATION PAD CORNER



TOP VIEW
LEFT OUSIDE CORNER

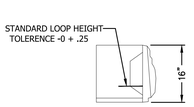


TOP VIEW
RIGHT OUTSIDE CORNER

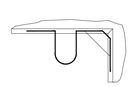


CROSS SECTION FOUNDATION PAD

2 FOUNDATION PAD TYPICAL
SCALE: NTS



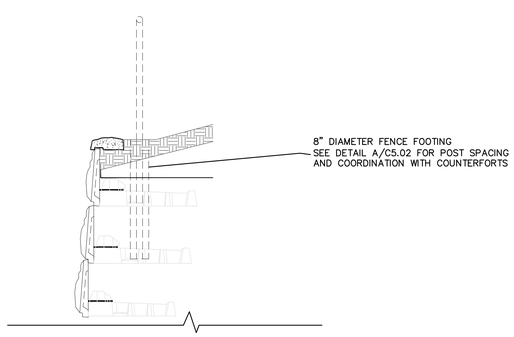
SIDE VIEW



TOP VIEW
LEFT OUTSIDE CORNER

NOTES:
1) MINIMUM CONCRETE COMPRESSIVE STRENGTH 5500psi AT 28 DAYS
2) 6% AIR ENTRAINMENT
3) 3 LBS STRUCTURAL FIBER PER CUBIC YARD
4) FACING TEXTURE AS SPECIFIED IN CONTRACT

8 OUTSIDE CORNERS
SCALE: NTS



B C5.02 TOP TRIM COPING DETAIL
SCALE: NONE

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

RETAINING WALL DETAILS

C5.30

4/5/2018
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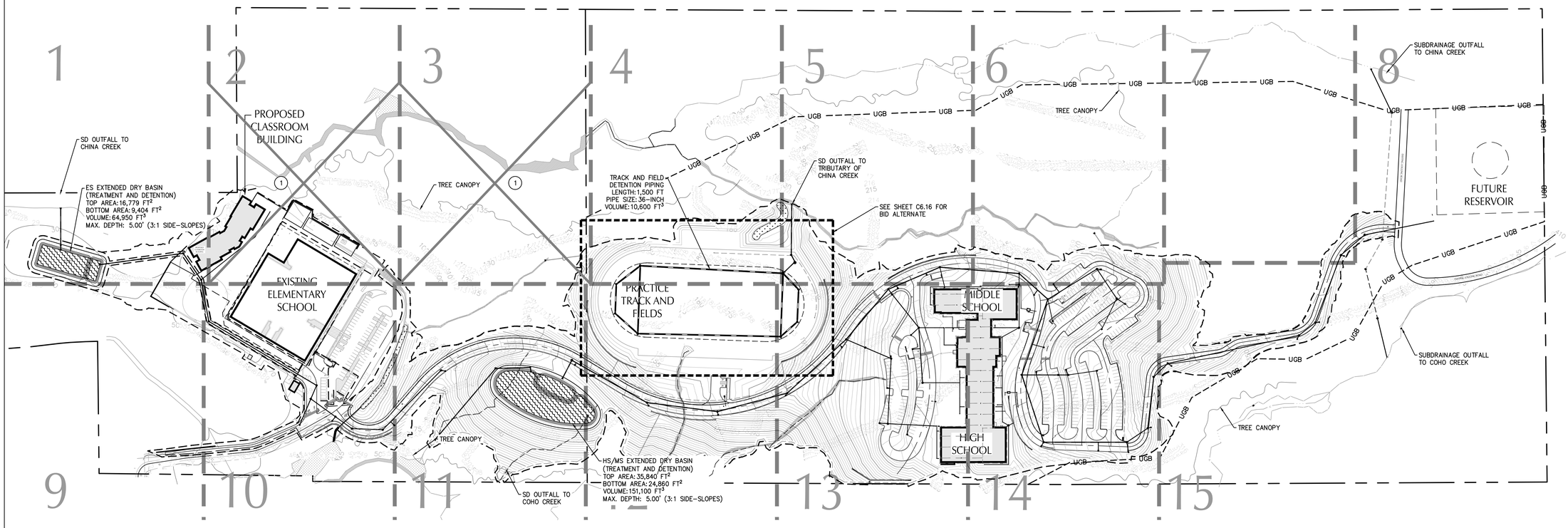

ⓧ KEY NOTES

1 SHEET EXCLUDED FROM STORM DRAINAGE PLAN SERIES C6.XX.

SCALE 1 INCH = 120 FEET
120 0 120 240

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Seaside New Middle + High School

Seaside School District
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fax . t: 503-738-5591

project #	17007
phase	CONDITIONAL USE
date	01/29/17
revisions	

OVERALL SITE STORM DRAINAGE PLAN

C6.00

File: N:\p\2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C6.00-STORM-overall.dwg TAB:C6.00
Plotted: 4/5/18 at 4:38pm By: MBluhm
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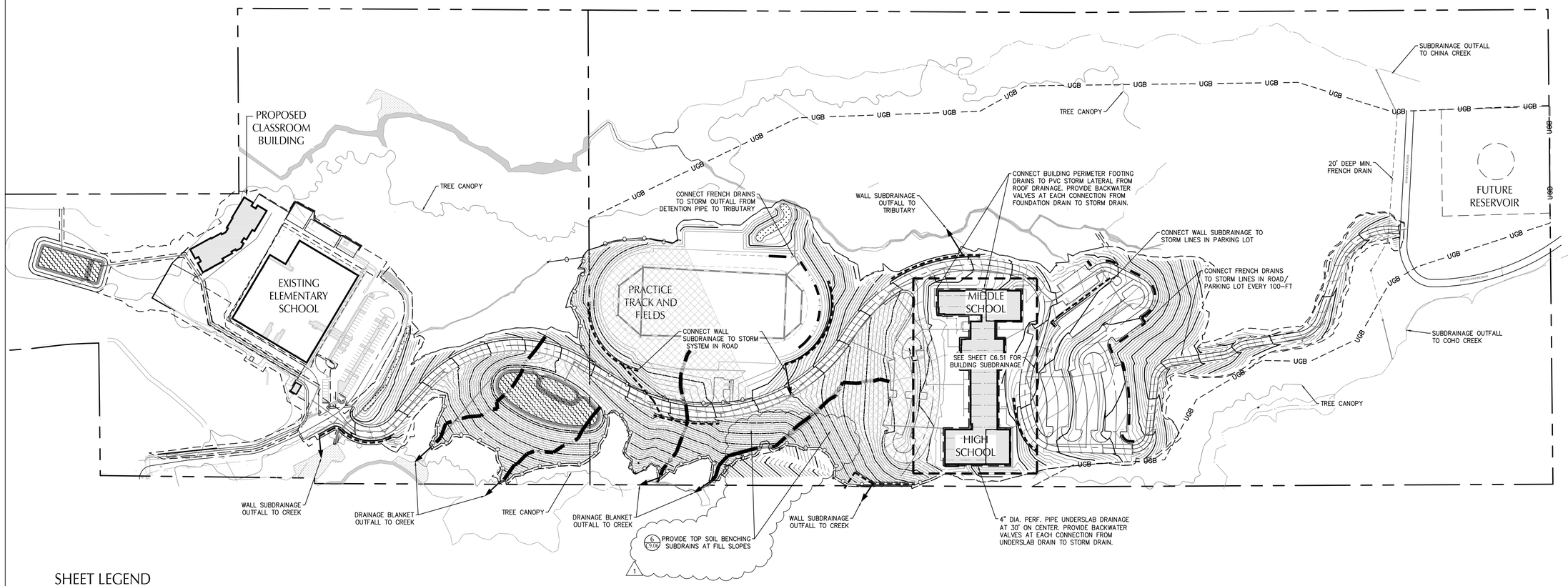

SHEET LEGEND

- FRENCH DRAIN AT TOE OF CUT SLOPES
- KEYWAY AT TOE OF FILL SLOPES
- 6" WALL SUBDRAINAGE
- FILL SLOPES WITH BENCHING
- 4" BUILDING PERIMETER FOOTING DRAIN
- DRAINAGE BLANKET AT DRAINAGE RAVINES

SHEET NOTES

1 SEE SHEET C6.01–C6.16 FOR SUBDRAINAGE PIPE INFORMATION

SCALE 1 INCH = 120 FEET
120 0 120 240

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1 BP#1	4/19/2018
project #	17007

OVERALL SITE SUBDRAINAGE PLAN

C6.00A

4/19/2018
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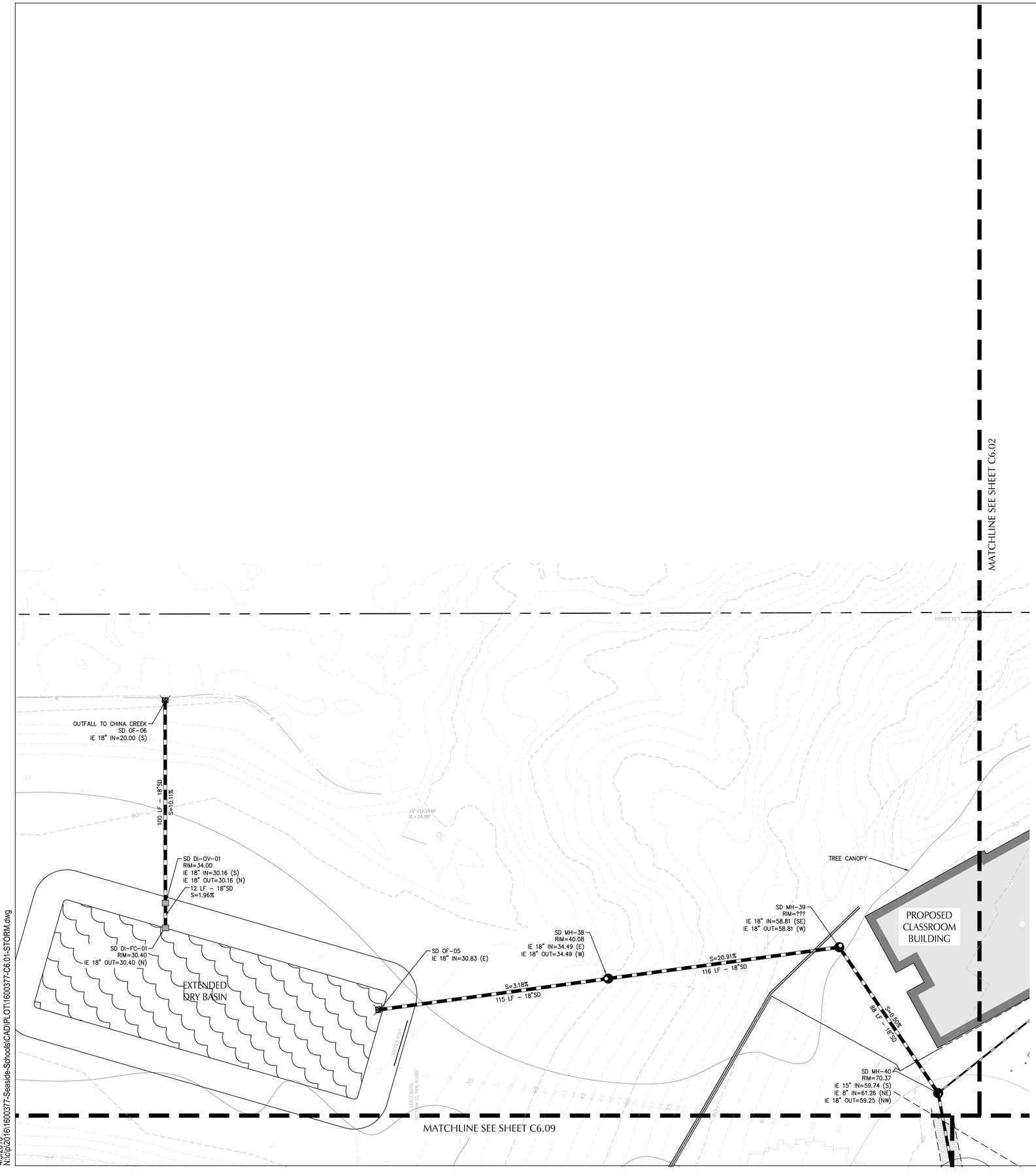


SHEET NOTES

1. PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL X/XX.X.
2. LOCATIONS SHOWN ON STRUCTURES ARE SHOWN AT CENTER OF STRUCTURE.
3. CONTRACTOR TO TAKE CAUTION WHEN EXCAVATING IN THE VICINITY OF THE EXISTING 16" HIGH PRESSURE GAS MAIN.
4. CONTRACTOR TO MAINTAIN MINIMUM 18" CLEARANCE AT GAS MAIN CROSSING.

UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX
E=XXXX.XX — LOCATION (WHERE APPLICABLE)
RIM=
IE IN = XX.X
IE OUT = XX.X — STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE

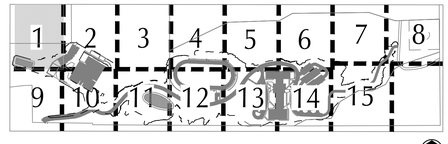
XXLF - XX" XX
S=X.XX%
SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	XX/XX.XX
CO	CLEANOUT TO GRADE	
DI	DITCH INLET	
DI-FC	DITCH INLET WITH FLOW CONTROL STRUCTURE	
DI-OV	OVERFLOW DITCH INLET	
FCMH	FLOW CONTROL MANHOLE	
MH	MANHOLE	
OF	OUTFALL	
OSMH	OVERSIZED MANHOLE	
OV	OVERFLOW	

UTILITY LEGEND

- PROPOSED STORM DRAIN LINE
- PROPOSED PERFORATED SUBDRAINAGE LINE
- PROPOSED OVERSIZED/FLOW CONTROL MANHOLE/WATER QUALITY MANHOLE
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED DITCH INLET
- CLEANOUT
- NYLOPLAST AREA DRAIN
- OUTFALL
- OUTFALL PROTECTION
- WETLAND MITIGATION
- EXTENDED DRY BASIN



KEY MAP

SCALE
1 INCH = 20 FEET
20 0 20 40

BRIC ARCHITECTURE, INC.
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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

STORM DRAINAGE PLAN

C6.01

4/5/2018
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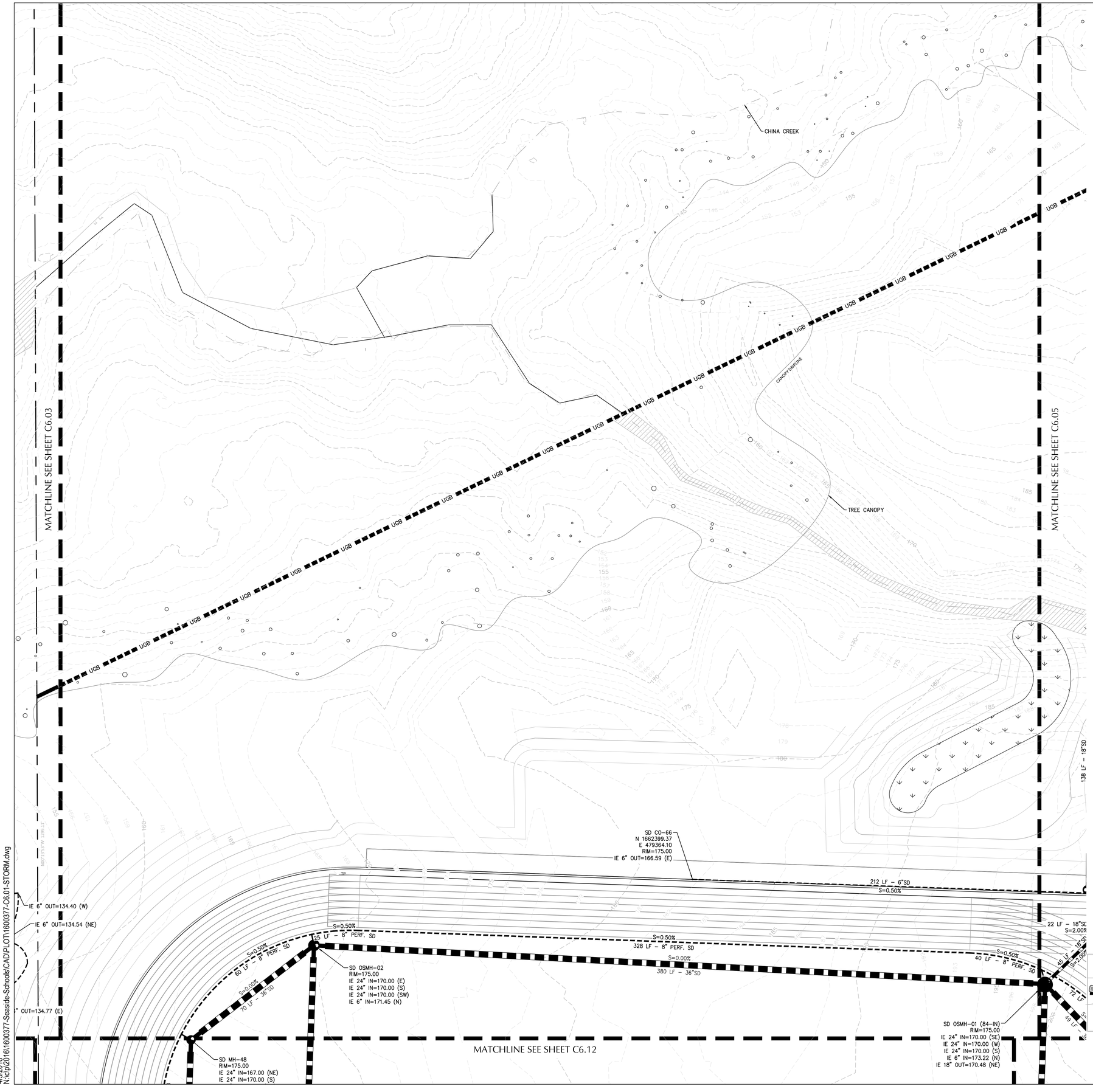

SHEET NOTES

1. PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL X/XX.X.
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UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX — LOCATION (WHERE APPLICABLE)
E=XXXX.XX
RIM=
IE IN = XX.X — STRUCTURE INFO (WHERE APPLICABLE)
IE OUT = XX.X

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE

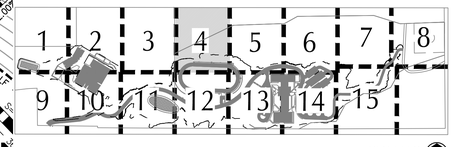
XXLF - XX" XX
S=X.XX%
SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	XX/XX.XX
CO	CLEANOUT TO GRADE	
DI	DITCH INLET	
DI-FC	DITCH INLET WITH FLOW CONTROL STRUCTURE	
DI-OV	OVERFLOW DITCH INLET	
FCMH	FLOW CONTROL MANHOLE	
MH	MANHOLE	
OF	OUTFALL	
OSMH	OVERSIZED MANHOLE	
OV	OVERFLOW	

UTILITY LEGEND

- PROPOSED STORM DRAIN LINE
- PROPOSED PERFORATED SUBDRAINAGE LINE
- PROPOSED OVERSIZED/FLOW CONTROL MANHOLE/WATER QUALITY MANHOLE
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED DITCH INLET
- CLEANOUT
- NYLOPLAST AREA DRAIN
- OUTFALL
- OUTFALL PROTECTION
- WETLAND MITIGATION
- EXTENDED DRY BASIN



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STORM DRAINAGE PLAN

C6.04

4/5/2018
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UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)

XX XX–XX
N=XXXX.XX
E=XXXX.XX — LOCATION (WHERE APPLICABLE)
RIM=
IE IN = XX.X
IE OUT = XX.X — STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE

XXLF – XX" XX
S=X.XX%
SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	XX/XX.XX
CO	CLEANOUT TO GRADE	
DI	DITCH INLET	
DI–FC	DITCH INLET WITH FLOW CONTROL STRUCTURE	
DI–OV	OVERFLOW DITCH INLET	
FCMH	FLOW CONTROL MANHOLE	
MH	MANHOLE	
OF	OUTFALL	
OSMH	OVERSIZED MANHOLE	
OV	OVERFLOW	

UTILITY LEGEND

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- PROPOSED CATCH BASIN
- PROPOSED DITCH INLET
- CLEANOUT
- NYLOPLAST AREA DRAIN
- OUTFALL
- OUTFALL PROTECTION
- WETLAND MITIGATION
- EXTENDED DRY BASIN

MATCHLINE SEE SHEET C6.04

MATCHLINE SEE SHEET C6.06

MATCHLINE SEE SHEET C6.13

TREE CANOPY

UGB

OUTFALL TO TRIBUTARY OF CHINA CREEK
SD OF–04
IE 18" IN=163.00 (S)

24" PVC CULVERT
IE = 211.62'

24" PVC CULVERT
IE = 213.22'

24" CPP CULVERT
IE = 191.08'

24" CPP CULVERT
IE = 193.50'

138 LF – 18"SD S=1.06%

SD MH–44
RIM=175.00
IE 18" IN=165.66 (SE)
IE 6" IN=165.53 (E)
IE 6" IN=165.53 (W)
IE 18" OUT=164.46 (N)

8 LF – 6"SD S=0.50%

SD FCMH–01
RIM=175.00
IE 18" IN=169.57 (SW)
IE 18" OUT=166.09 (NW)

22 LF – 18"SD S=2.00%

45 LF – 18"SD S=2.00%

S=0.50% – 8" PERF. SD

105 LF – 6"SD S=0.50%

72 LF – 8" PERF. SD S=0.50%

49 LF – 48"SD–BIO–ALT S=0.00%

SD CO–59
RIM=182.93
IE 6" OUT=180.93 (S)

SD MH–47
RIM=175.00
IE 24" IN=170.00 (S)
IE 6" IN=172.48 (NE)
IE 24" OUT=170.00 (NW)

SD OF–14
IE 6" IN=222.18 (SE)

23 LF – 6"SD S=1.07%

IE 6" OUT=223.79 (NW)

SD CO–
RIM=24
IE 6" O

S=0.50%

43 LF – 6" PERF. SD

SD MH–13
RIM=235.43
IE 18" IN=230.78 (E)
IE 6" IN=231.76 (S)
IE 18" OUT=230.78 (SW)

208 LF – 6" PERF. SD S=0.50%

S=6.98%

218 LF – 18"

SD CO–96
RIM=230.38
IE 6" OUT=224.83 (NE)

8 LF – 10"SD S=1.00%

S=4.14%

154 LF – 18"SD

IE 10" OUT=231.89 (NW)

5 LF – 10"SD S=44.53%

SD CB–18
RIM=233.57

SD CB–17
RIM=229.86
IE 10" OUT=226.17 (NW)

SD CO–10
RIM=243.79
IE 6" IN=239.93 (S)
IE 6" OUT=236.00 (E)

SD CO–14
RIM=243.82
IE 6" IN=235.51 (E)
IE 6" IN=235.51 (W)
IE 6" OUT=235.51 (N)

SD MH–14
RIM=228.80
IE 18" IN=224.42 (NE)

IE 6" OUT=240.30 (N)

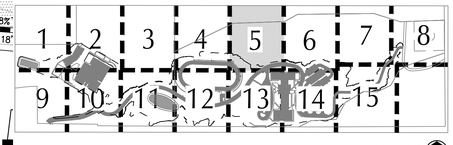
39 LF – 6"SD S=1.27%

SD BWV–03 S=5.00%

100 LF – 6"SD

SD STUB–12
IE 6" OUT=241.00 (W)

CONNECT SUBDRAINAGE TO STORM SYSTEM WITH



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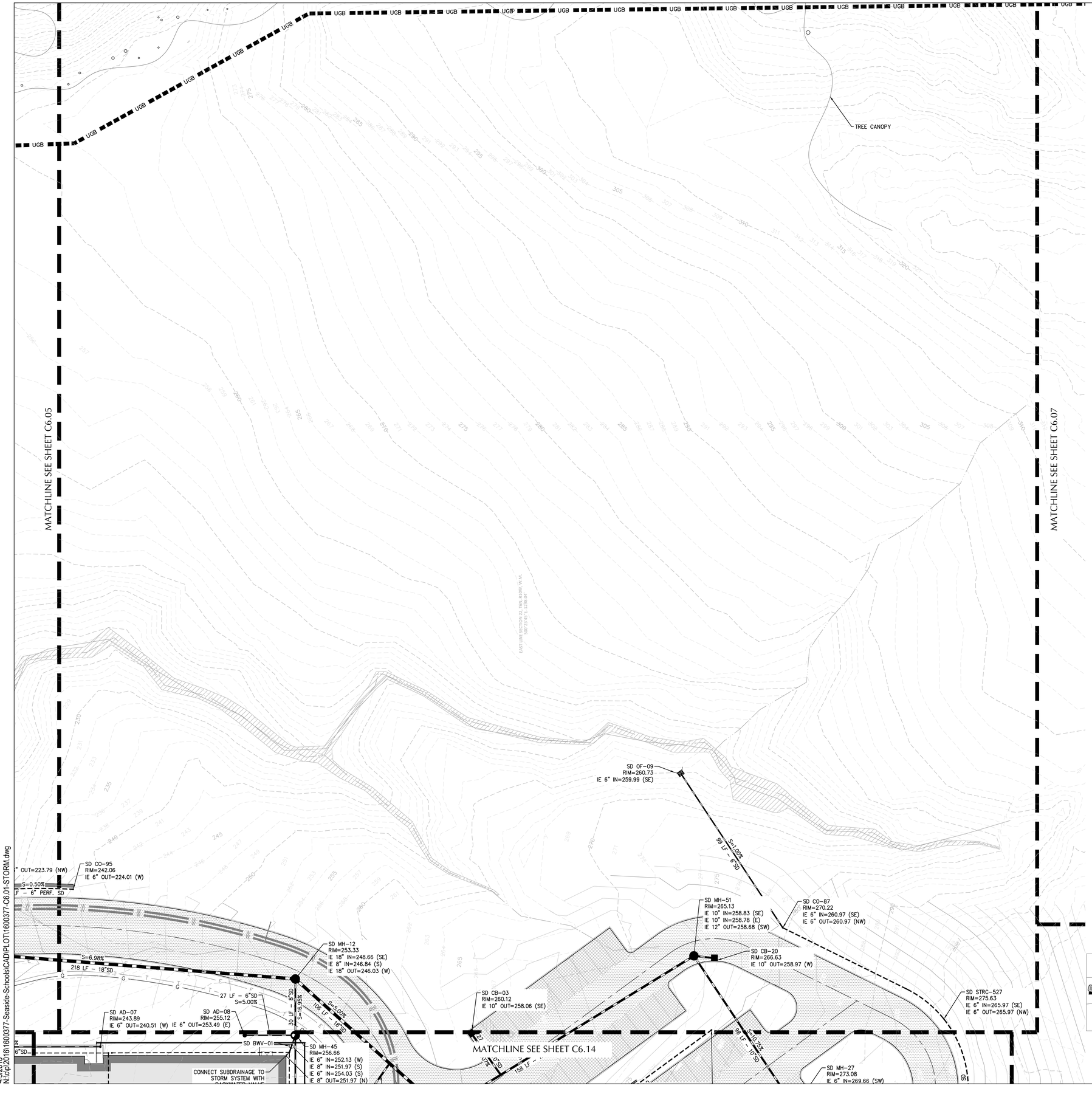
STORM DRAINAGE PLAN

C6.05



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UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

LOCATION (WHERE APPLICABLE)
STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE

XXLF - XX" XX
S=X.XX%

SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	XX/XX.XX
CO	CLEANOUT TO GRADE	
DI	DITCH INLET	
DI-FC	DITCH INLET WITH FLOW CONTROL STRUCTURE	
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MH	MANHOLE	
OF	OUTFALL	
OSMH	OVERSIZED MANHOLE	
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UTILITY LEGEND

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- PROPOSED MANHOLE
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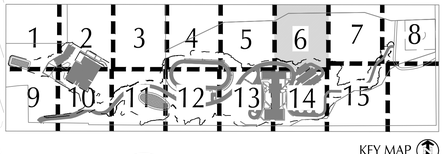
- CLEANOUT
- NYLOPLAST AREA DRAIN
- OUTFALL
- OUTFALL PROTECTION
- WETLAND MITIGATION
- EXTENDED DRY BASIN



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revisions	
project #	17007

STORM DRAINAGE PLAN

C6.06

4/5/2018
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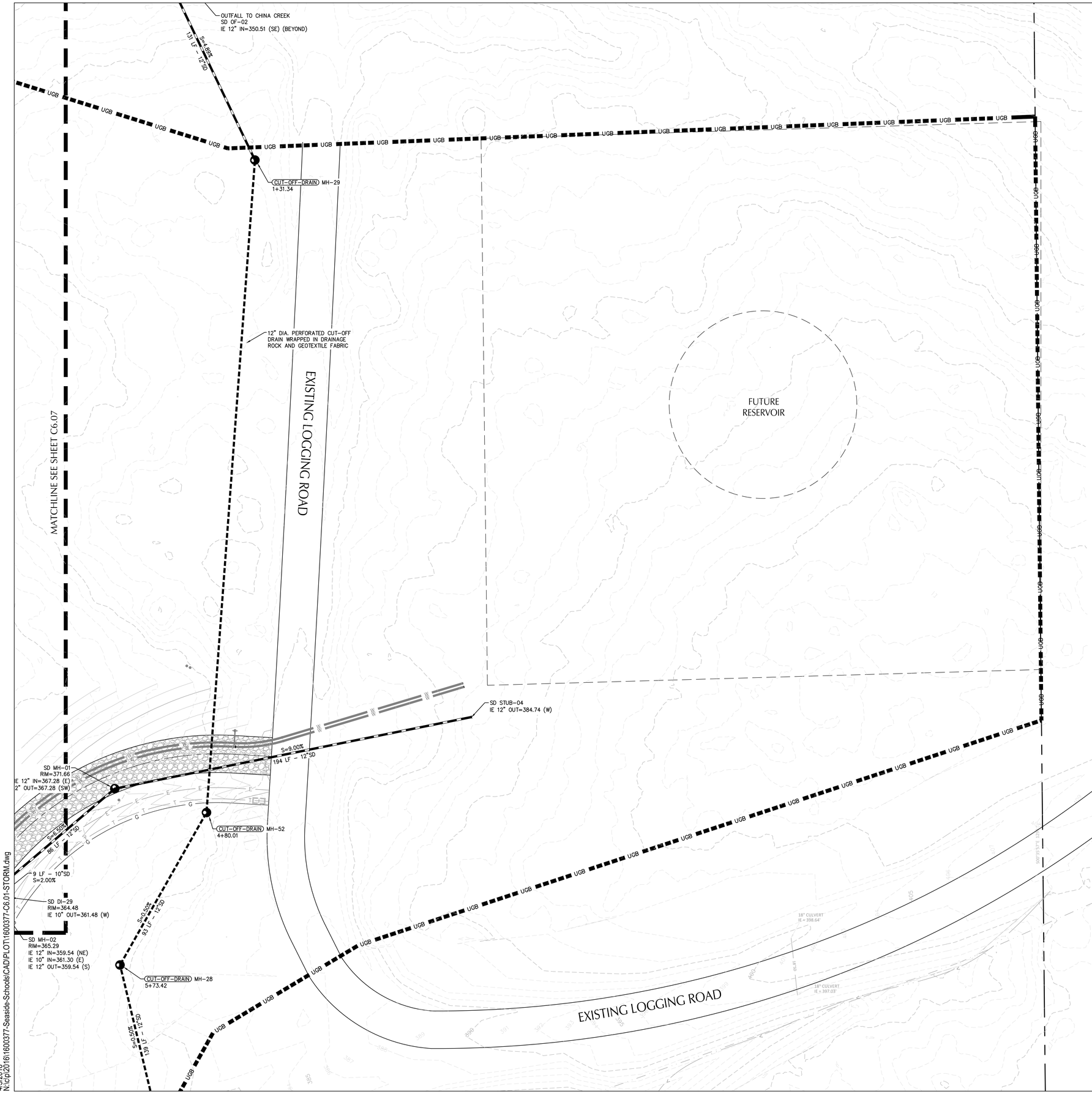
UGB UGB UGB



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UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)

```
XX XX-XX
N=XXXX.XX      <- LOCATION (WHERE APPLICABLE)
E=XXXX.XX
RIM=
IE IN = XX.X   <- STRUCTURE INFO (WHERE APPLICABLE)
IE OUT = XX.X
```

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE

```
XXLF - XX" XX
S=X.XX%
```

SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	XX/XX.XX
CO	CLEANOUT TO GRADE	
DI	DITCH INLET	
DI-FC	DITCH INLET WITH FLOW CONTROL STRUCTURE	
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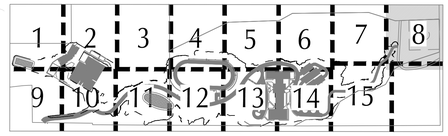

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STORM DRAINAGE PLAN

C6.08

4/5/2018
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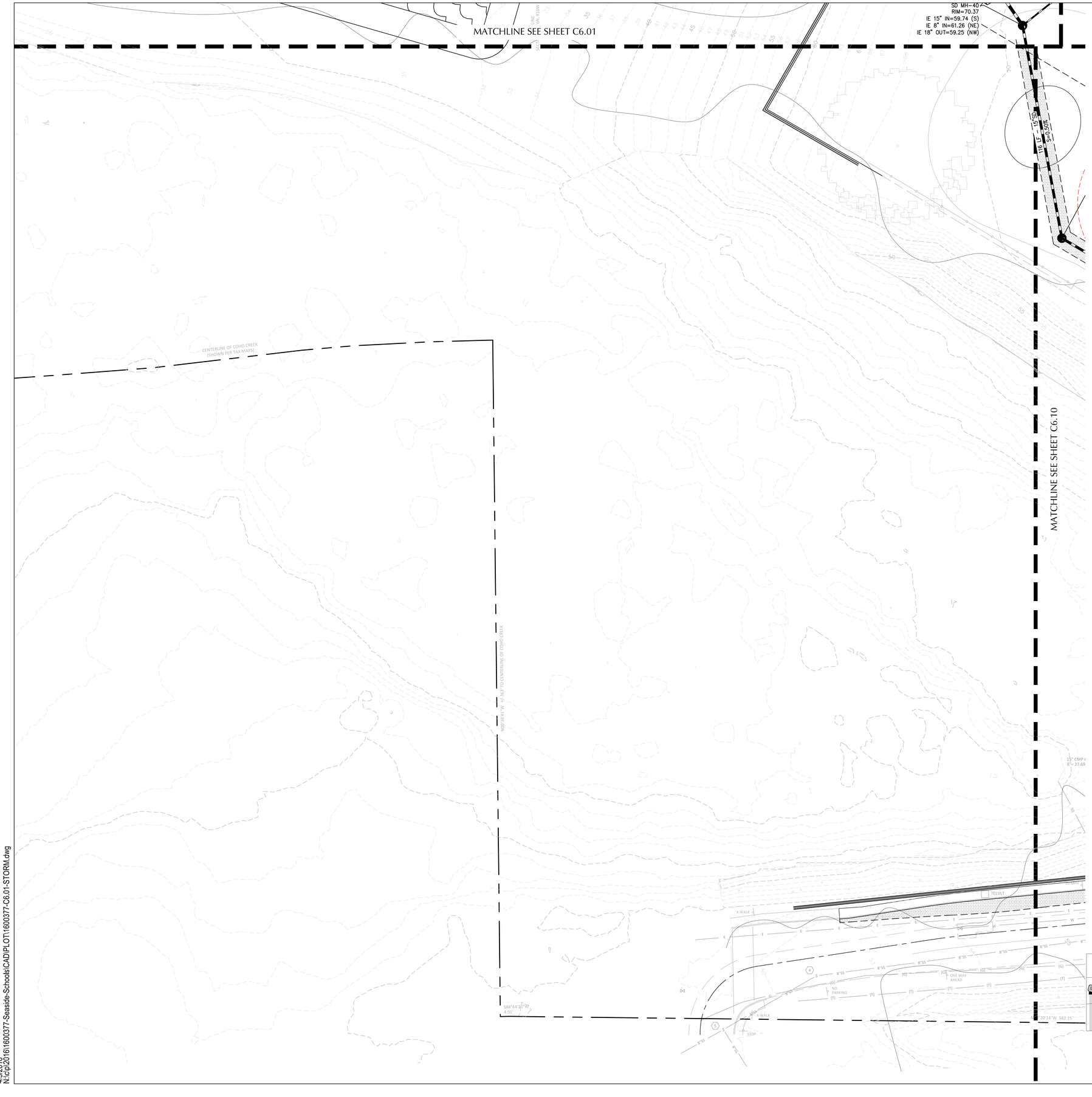

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STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)

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E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

LOCATION (WHERE APPLICABLE)
STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE

XXLF - XX" XX
S=X.XX%

SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	XX/XX.XX
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FCMH	FLOW CONTROL MANHOLE	
MH	MANHOLE	
OF	OUTFALL	
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UTILITY LEGEND

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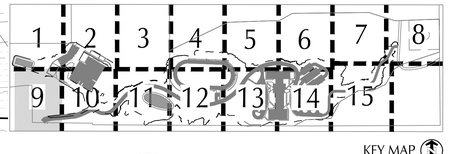

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STORM DRAINAGE PLAN

C6.09

4/5/2018
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MATCHLINE SEE SHEET C6.02

MATCHLINE SEE SHEET C6.09

MATCHLINE SEE SHEET C6.11

2000 SPRUCE DRIVE
SEASIDE HEIGHTS ELEMENTARY SCHOOL
1-STORY
WOOD FRAME

EXISTING ELEMENTARY SCHOOL

SD MH-41
RIM=70.54
IE 15" IN=60.32 (SE)
IE 15" OUT=60.32 (N)

116 LF - 15"SD
S=0.50%

344 LF - 15"SD
S=0.50%

SD MH-42
RIM=69.49
IE 12" IN=62.04 (SW)
IE 15" OUT=62.04 (NW)

40 LF - 12"SD
S=1.60%

SD MH-54
RIM=68.23
IE 12" IN=62.69 (SE)
IE 12" IN=62.69 (SW)
IE 12" OUT=62.69 (NE)

78 LF - 12"SD
S=0.50%

S=1.47%
83 LF - 12"SD

14 LF - 10"SD
S=2.93%

SD CB-21
RIM=68.02
IE 10" OUT=64.49 (NE)

SD CB-38
RIM=65.12
IE 12" OUT=63.08 (NE)

SD CO-92
RIM=64.11
IE 6" OUT=53.30 (NE)

42 LF - 6" PERF. SD
S=0.50%

SD OF-08
RIM=53.38
IE 12" IN=53.60 (NE)

SD OF-10
IE 6" IN=46.95 (N)

SD CULVERT-01
RIM=61.92
IE 12" OUT=61.92 (SW)

SD MH-26
RIM=68.37
IE 12" IN=63.91 (SE)
IE 10" IN=64.07 (SW)
IE 12" OUT=63.91 (NW)

S=9.17%
85 LF - 12"SD

SD MH-25
RIM=69.88
IE 12" IN=65.02 (E)
IE 12" OUT=65.17 (NW)

SD MH-24
RIM=74.15
IE 12" IN=68.99 (NE)
IE 12" OUT=68.99 (W)

S=4.68%
85 LF - 12"SD

SD CO-93
RIM=74.66
IE 6" OUT=53.70 (SW)

141 LF - 6" PERF. SD
S=0.50%

14 LF - 10"
S=5.00%

SD CB-22
RIM=76.20
IE 10" OUT=

TREE CANOPY

15" CMP CULVERT
IE = 27.69'

15" CMP CULVERT
IE = 32.83'

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XXLF - XX" XX
S=X.XX%
SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

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1 2 3 4 5 6 7 8
9 10 11 12 13 14 15

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

New Middle School / High School
Seaside School District
1801 S. FRANKLIN STREET, SEASIDE, OR 97138
t: 503-738-5591

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

STORM DRAINAGE PLAN

C6.10

4/5/2018
N:\clp\2016\16003377-Seaside-Schools\CAD\PLOT\16003377-C6.01-STORM.dwg

MATCHLINE SEE SHEET C6.03

MATCHLINE SEE SHEET C6.10

MATCHLINE SEE SHEET C6.12

IE 6" OUT=134.77 (E)

IE 6" OUT=135.12 (N)

SD CO-5
RIM=166.
IE 6" OUT

SD WQMH-19
RIM=134.32
IE 18" IN=129.50 (SE)
IE 18" OUT=129.50 (SW)

IE 18" C

SD MH-23
RIM=95.61
IE 10" IN=91.30 (E)
IE 12" OUT=91.14 (SW)

12 LF - 10"SD
S=8.79%

SD CB-30
RIM=96.23
IE 10" OUT=92.31 (W)

SD MH-20
RIM=130.00
IE 18" IN=122.02 (E)
IE 18" OUT=122.02 (SW)

SD DI-OV-02
RIM=129.06
IE 18" IN=125.08 (S)
IE 18" OUT=123.92 (W)

S=2.00%
95 LF - 18"SD

12 LF - 18"SD
S=2.73%

S=1.82%
55 LF - 18"SD

5 LF - 10"SD
S=5.03%

SD CB-01
RIM=136.20
IE 10" OUT=131.6

SD DI-FC-02
RIM=125.40
IE 18" OUT=125.40 (N)

SD OF-01
IE 18" IN=128.50 (NE)

DRAINAGE BLANET
UNDER DRAIN

EXTENDED
DRY BASIN

S=23.17%
242 LF - 18"SD

S=3.70%
198 LF - 12"SD

14 LF - 10"SD
S=5.00%

SD CB-22
RIM=76.20
IE 10" OUT=72.84 (NW)

OUTFALL TO COHO CREEK
SD OF-03
IE 18" IN=62.00 (NE)

7 LF - 6"SD
S=52.67%

SD OF-11
IE 6" IN=58.00 (NE)

DRAINAGE BLANET
UNDER DRAIN

TREE CANOPY

IE 6" OUT=66.39 (SW)

8 LF - 6"SD
S=11.84%

SD OF-12
IE 6" IN=65.42 (NE)

N89°45'35"W 753.87'

SHEET NOTES

1. PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL X/XX.X.
2. LOCATIONS SHOWN ON STRUCTURES ARE SHOWN AT CENTER OF STRUCTURE.
3. CONTRACTOR TO TAKE CAUTION WHEN EXCAVATING IN THE VICINITY OF THE EXISTING 16" HIGH PRESSURE GAS MAIN.
4. CONTRACTOR TO MAINTAIN MINIMUM 18" CLEARANCE AT GAS MAIN CROSSING.

UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

LOCATION (WHERE APPLICABLE)
STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE

XXLF - XX" XX
S=X.XX%

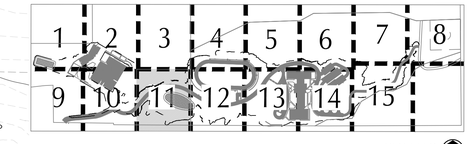
SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	XX/XX.XX
CO	CLEANOUT TO GRADE	
DI	DITCH INLET	
DI-FC	DITCH INLET WITH FLOW CONTROL STRUCTURE	
DI-OV	OVERFLOW DITCH INLET	
FCMH	FLOW CONTROL MANHOLE	
MH	MANHOLE	
OF	OUTFALL	
OSMH	OVERSIZED MANHOLE	
OV	OVERFLOW	

UTILITY LEGEND

- PROPOSED STORM DRAIN LINE
- PROPOSED PERFORATED SUBDRAINAGE LINE
- PROPOSED OVERSIZED/FLOW CONTROL MANHOLE/WATER QUALITY MANHOLE
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED DITCH INLET
- CLEANOUT
- NYLOPLAST AREA DRAIN
- OUTFALL
- OUTFALL PROTECTION
- WETLAND MITIGATION
- EXTENDED DRY BASIN



KEY MAP

SCALE
1 INCH = 20 FEET
20 0 20 40

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STORM DRAINAGE PLAN

C6.11

4/5/2018
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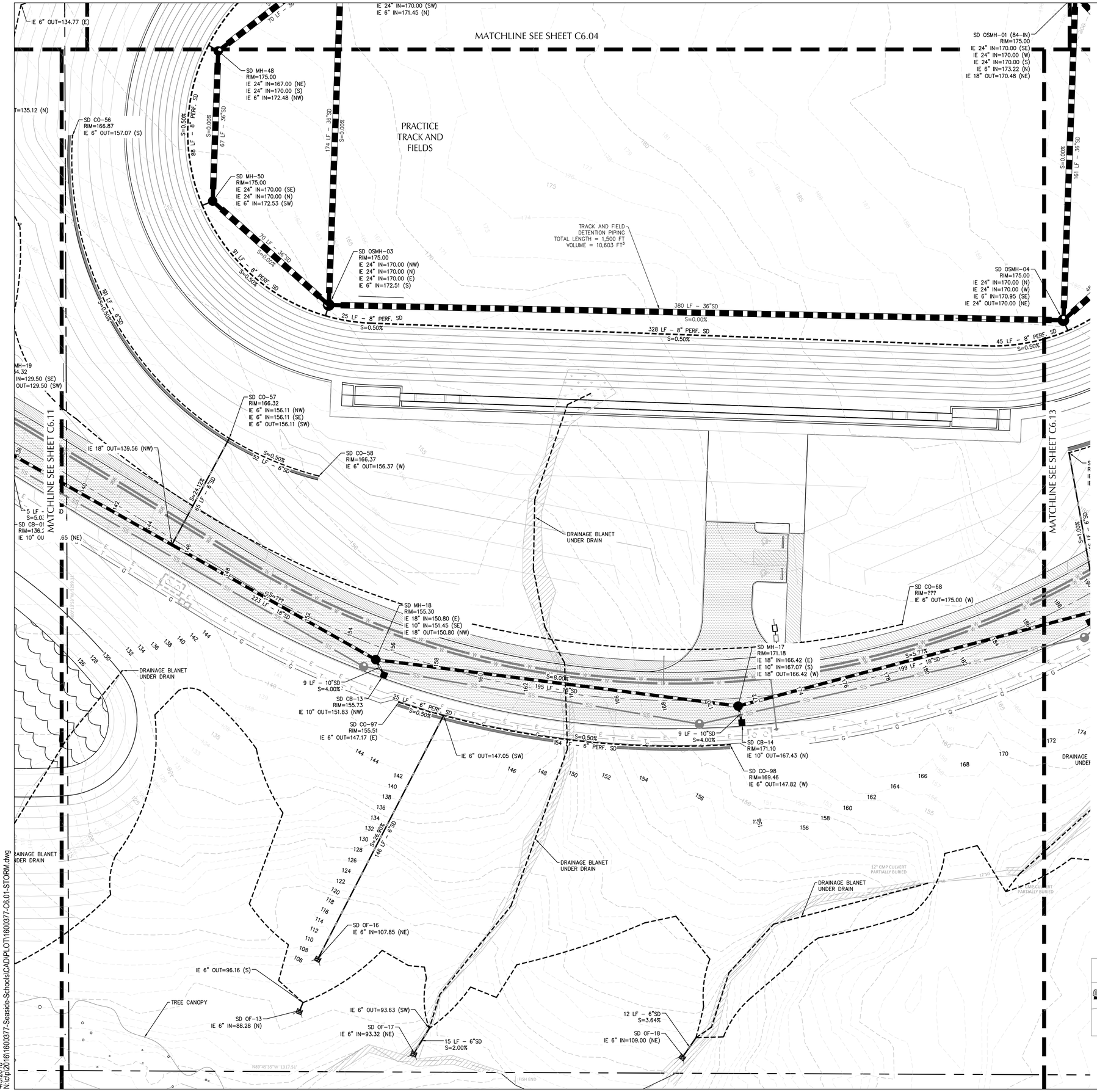

SHEET NOTES

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UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX
E=XXXX.XX — LOCATION (WHERE APPLICABLE)
RIM=
IE IN = XX.X
IE OUT = XX.X — STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE

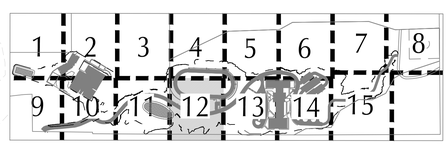
XXLF - XX" XX
S=X.XX% — SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	XX/XX.XX
CO	CLEANOUT TO GRADE	
DI	DITCH INLET	
DI-FC	DITCH INLET WITH FLOW CONTROL STRUCTURE	
DI-OV	OVERFLOW DITCH INLET	
FCMH	FLOW CONTROL MANHOLE	
MH	MANHOLE	
OF	OUTFALL	
OSMH	OVERSIZED MANHOLE	
OV	OVERFLOW	

UTILITY LEGEND

- PROPOSED STORM DRAIN LINE
- PROPOSED PERFORATED SUBDRAINAGE LINE
- PROPOSED OVERSIZED/FLOW CONTROL MANHOLE/WATER QUALITY MANHOLE
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED DITCH INLET
- CLEANOUT
- NYLOPLAST AREA DRAIN
- OUTFALL
- OUTFALL PROTECTION
- WETLAND MITIGATION
- EXTENDED DRY BASIN



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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STORM DRAINAGE PLAN

C6.12

4/5/2018
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MATCHLINE SEE SHEET C6.05

MATCHLINE SEE SHEET C6.12

MATCHLINE SEE SHEET C6.14

SHEET NOTES

1. PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL X/XX.X.
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4. CONTRACTOR TO MAINTAIN MINIMUM 18" CLEARANCE AT GAS MAIN CROSSING.

UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)

XX XX–XX
N=XXXX.XX — LOCATION (WHERE APPLICABLE)
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X — STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE

XXLF – XX" XX
S=X.XX%
SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	XX/XX.XX
CO	CLEANOUT TO GRADE	
DI	DITCH INLET	
DI–FC	DITCH INLET WITH FLOW CONTROL STRUCTURE	
DI–OV	OVERFLOW DITCH INLET	
FCMH	FLOW CONTROL MANHOLE	
MH	MANHOLE	
OF	OUTFALL	
OSMH	OVERSIZED MANHOLE	
OV	OVERFLOW	

UTILITY LEGEND

- PROPOSED STORM DRAIN LINE
- PROPOSED PERFORATED SUBDRAINAGE LINE
- PROPOSED OVERSIZED/FLOW CONTROL MANHOLE/WATER QUALITY MANHOLE
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED DITCH INLET
- CLEANOUT
- NYLOPLAST AREA DRAIN
- OUTFALL
- OUTFALL PROTECTION
- WETLAND MITIGATION
- EXTENDED DRY BASIN

KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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revisions	
project #	17007

STORM DRAINAGE PLAN

C6.13

4/5/2018
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SHEET NOTES

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UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

LOCATION (WHERE APPLICABLE)
STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE

XXLF – XX" XX
S=X.XX%

SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	XX/XX.XX
CO	CLEANOUT TO GRADE	
DI	DITCH INLET	
DI–FC	DITCH INLET WITH FLOW CONTROL STRUCTURE	
DI–OV	OVERFLOW DITCH INLET	
FCMH	FLOW CONTROL MANHOLE	
MH	MANHOLE	
OF	OUTFALL	
OSMH	OVERSIZED MANHOLE	
OV	OVERFLOW	

UTILITY LEGEND

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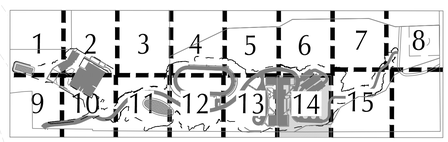
project #	17007

STORM DRAINAGE PLAN

C6.14



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

4/5/2018
N:\cip\2016\16600377-Seaside-Schools\CAD\PLOT\16600377-C6.01-STORM.dwg

MATCHLINE SEE SHEET C6.07

MATCHLINE SEE SHEET C6.14

SD STRC-527
RIM=275.63
IE 6" IN=265.97 (SE)
IE 6" OUT=265.97 (NW)

272.48 (NW)

SD MH-02
RIM=365.29
IE 12" IN=359.54 (NI
IE 10" IN=361.30 (E)
IE 12" OUT=359.54 (

RIM=364.48
IE 10" OUT=3

198 LF - 12"SD
S=4.00%

11 LF - 10"SD
S=7.43%

SD DI-28
RIM=355.59
IE 10" OUT=352.59 (W)

SD MH-03
RIM=356.45
IE 12" IN=351.62 (N)
IE 10" IN=351.78 (E)
IE 12" OUT=351.62 (SW)

SD MH-04
RIM=354.12
IE 12" IN=349.34 (NE)
IE 10" IN=349.59 (SW)
IE 12" OUT=349.34 (W)

57 LF - 12"SD
S=4.00%

11 LF - 10"SD
S=2.00%

SD DI-27
RIM=352.81
IE 10" OUT=349.81 (NE)

368 LF - 12"SD
S=8.60%

SD MH-05
RIM=322.27
IE 12" IN=317.66 (E)
IE 10" IN=318.75 (SE)
IE 12" OUT=317.66 (SW)

12 LF - 10"SD
S=2.00%

SD DI-26
RIM=322.00
IE 10" OUT=319.00 (NW)

54 LF - 12"SD
S=15.00%

142 LF - 12"SD
S=9.80%

9 LF - 10"SD
S=2.00%

SD DI-30
RIM=300.45
IE 10" OUT=297.45 (W)

UGB

TREE CANOPY

SHEET NOTES

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UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX
E=XXXX.XX — LOCATION (WHERE APPLICABLE)
RIM=
IE IN = XX.X
IE OUT = XX.X — STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE

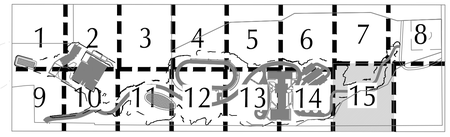
XXLF - XX" XX
S=X.XX%
SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	XX/XX.XX
CO	CLEANOUT TO GRADE	
DI	DITCH INLET	
DI-FC	DITCH INLET WITH FLOW CONTROL STRUCTURE	
DI-OV	OVERFLOW DITCH INLET	
FCMH	FLOW CONTROL MANHOLE	
MH	MANHOLE	
OF	OUTFALL	
OSMH	OVERSIZED MANHOLE	
OV	OVERFLOW	

UTILITY LEGEND

- PROPOSED STORM DRAIN LINE
- PROPOSED PERFORATED SUBDRAINAGE LINE
- PROPOSED OVERSIZED/FLOW CONTROL MANHOLE/WATER QUALITY MANHOLE
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED DITCH INLET
- CLEANOUT
- NYLOPLAST AREA DRAIN
- OUTFALL
- OUTFALL PROTECTION
- WETLAND MITIGATION
- EXTENDED DRY BASIN



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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STORM DRAINAGE PLAN

C6.15

4/5/2018
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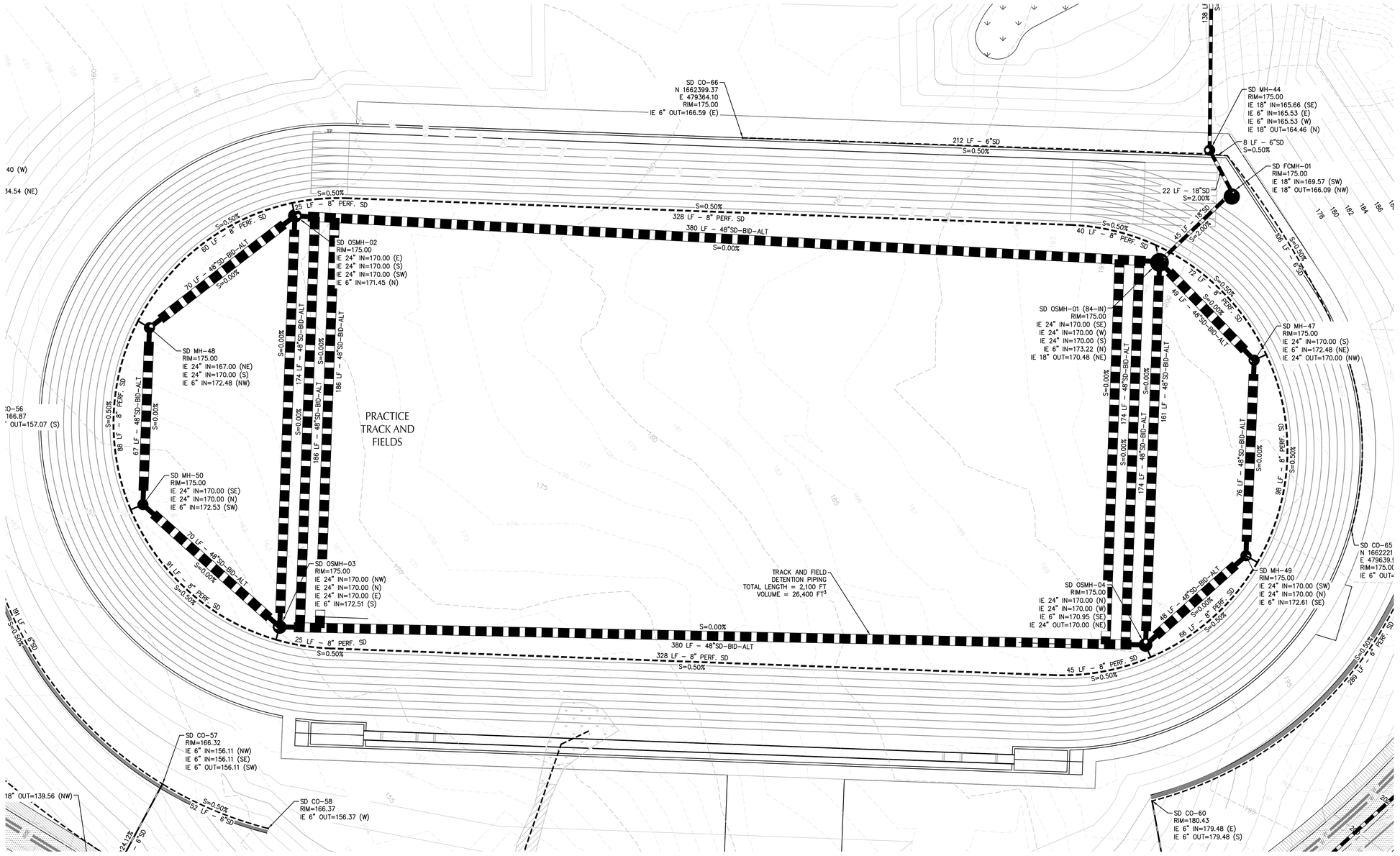

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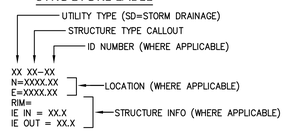
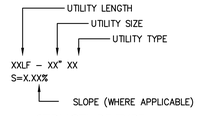
UTILITY LABEL LEGEND

STRUCTURE LABEL



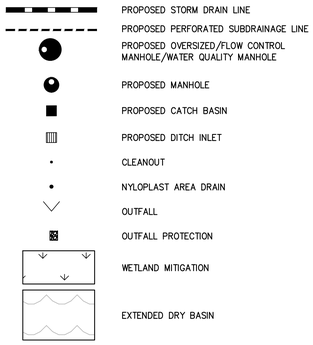
PIPE LABEL

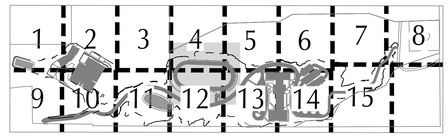


STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AD	AREA DRAIN	XX/XX.XX
CO	CLEANOUT TO GRADE	
DI	DITCH INLET	
DI-FC	DITCH INLET WITH FLOW CONTROL STRUCTURE	
DI-OV	OVERFLOW DITCH INLET	
FCMH	FLOW CONTROL MANHOLE	
MH	MANHOLE	
OF	OUTFALL	
OSMH	OVERSIZED MANHOLE	
OV	OVERFLOW	

UTILITY LEGEND





KEY MAP

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20 0 20 40

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STORM DRAINAGE PLAN - FIELD DETENTION BID ALTERNATE

C6.16

4/5/2018
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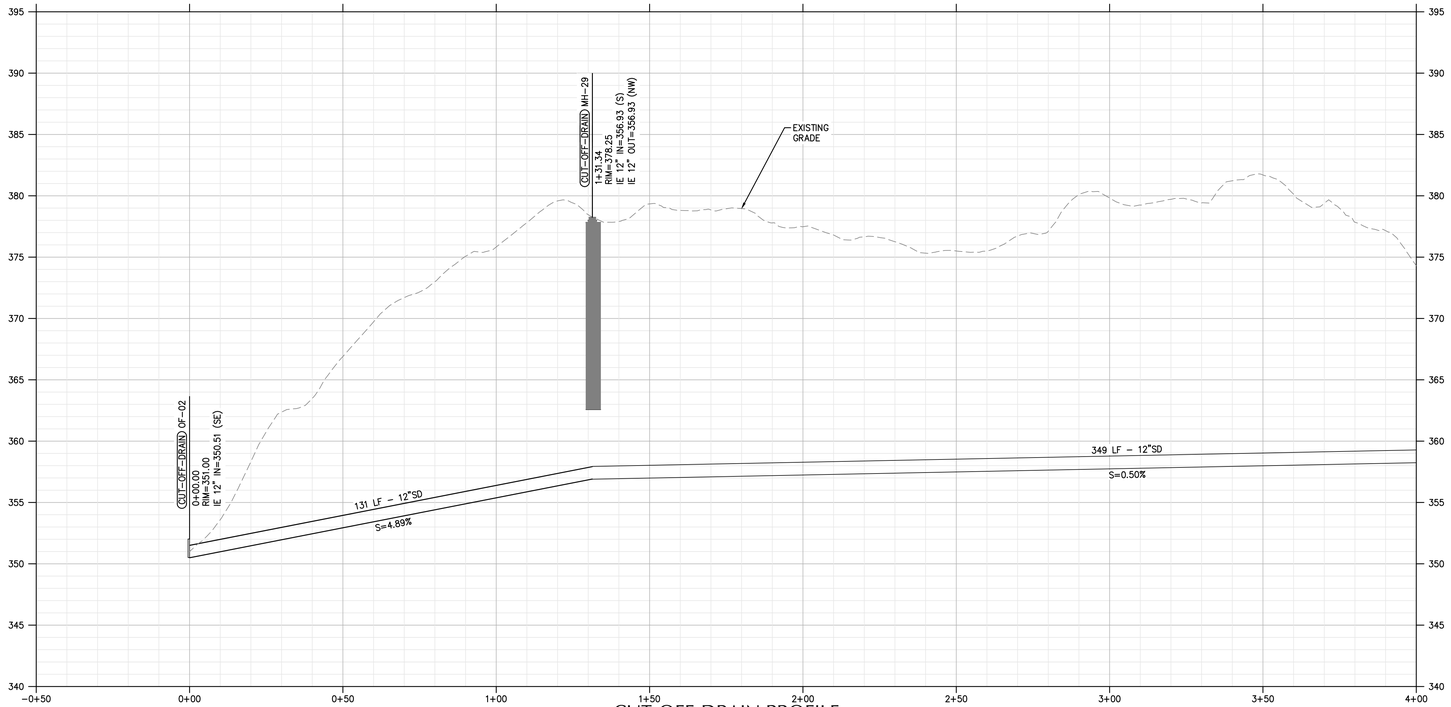
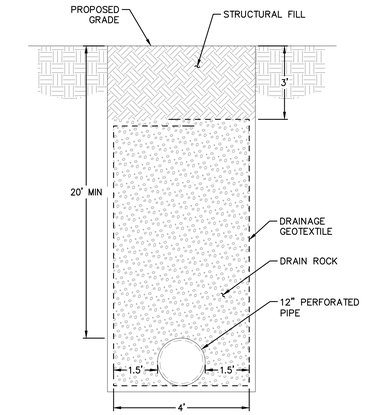


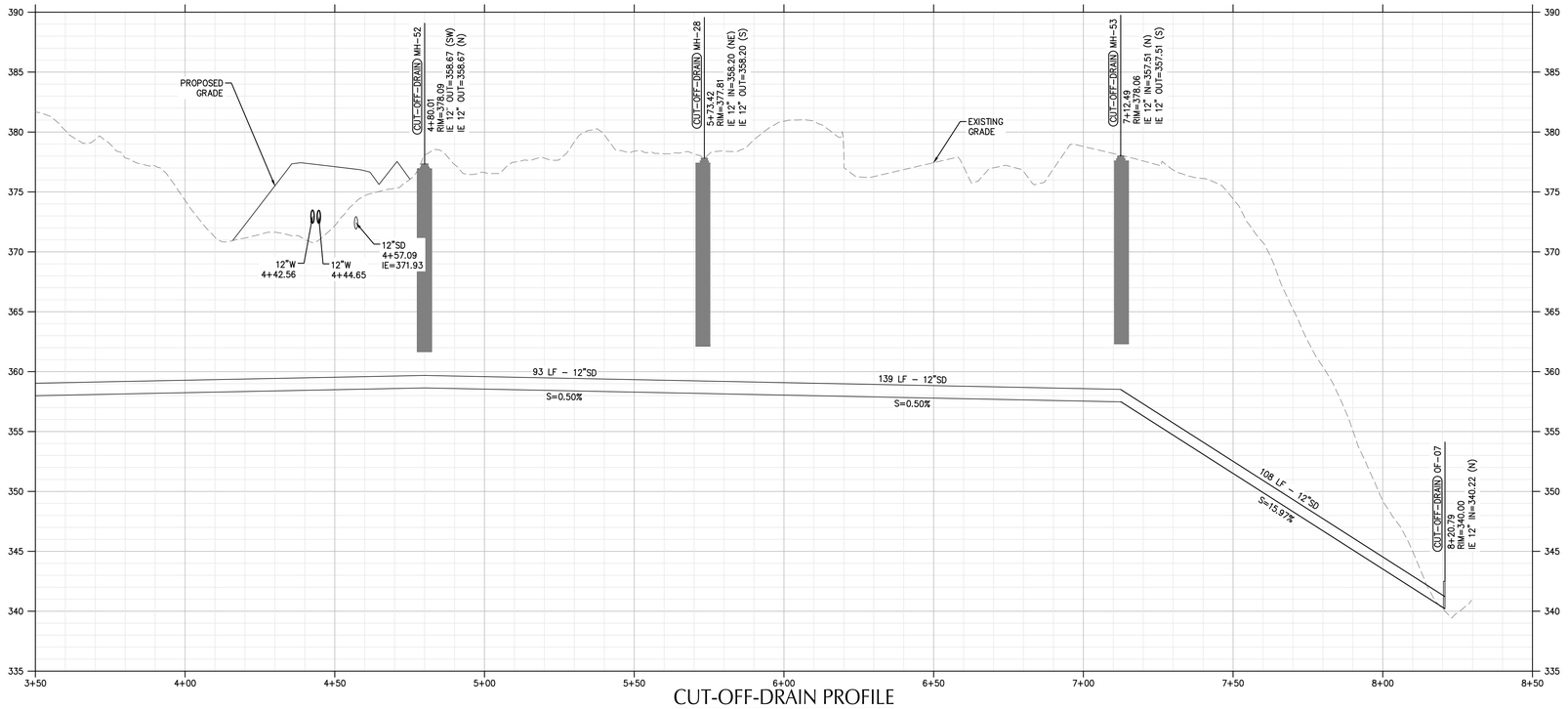
CUT-OFF-DRAIN PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'



X CUTOFF DRAIN TRENCH SECTION

SCALE: NTS



CUT-OFF-DRAIN PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

SCALE 1 INCH = 20 FEET
20 0 20 40

BRIC ARCHITECTURE, INC.
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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

New Middle School / High School
Seaside School District
1801 S. FRANKLIN STREET, SEASIDE, OR 97138
t: 503-738-5591

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

STORM PROFILES

C6.20

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SHEET NOTES

1. BUILDING FLOOR PLAN PROVIDED FOR REF. ONLY. COORDINATE WITH ARCHITECT.
2. CONNECT TO STORM DRAIN SYSTEM. SEE SHEETS C6.01–C6.16.
3. CONTRACTOR TO PROVIDE CLEANOUTS ON FOUNDATION DRAINS PER DETAIL CX.XX
4. COORDINATE UNDERSLAB DRAIN CLEANOUT LIDS WITH PLUMBING DETAILS AND SPECS. CONTRACTOR TO PROVIDE CUT SHEET OR SHOP DRAWINGS FOR UNDERSLAB CLEANOUT LIDS FOR APPROVAL.
5. COORDINATE PIPE CROSSINGS AT FOUNDATION WITH STRUCTURAL PLANS.

SHEET LEGEND

- PROPOSED STORM DRAIN LINE
- PROPOSED PERFORATED SUBDRAINAGE LINE
- PROPOSED OVERSIZED/FLOW CONTROL MANHOLE/WATER QUALITY MANHOLE
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED DITCH INLET
- CLEANOUT
- NYLOPLAST AREA DRAIN
- OUTFALL
- OUTFALL PROTECTION
- BACKWATER VALVE

MIDDLE SCHOOL

HIGH SCHOOL

SD CO-40
RIM=244.47
IE 4" OUT=255.00 (E)

SD CO-39
RIM=244.21
IE 4" IN=236.33 (S)
IE 4" OUT=236.33 (W)

SD CO-28
RIM=243.95
IE 4" IN=237.30 (E)
IE 4" OUT=237.30 (N)

SD CO-23
RIM=245.57
IE 4" IN=236.10 (E)
IE 4" OUT=236.10 (W)

SD CO-22
RIM=258.93
IE 4" IN=236.38 (N)
IE 4" OUT=236.38 (W)

SD CO-42
RIM=258.93
IE 4" OUT=257.70 (E)

SD CO-94 — IE 6" OUT=235.81 (N) — 104 LF – 4"SD S=0.50%
SD CO-38 — S=0.50%
17 LF – 4"SD S=0.50%
65 LF – 4"SD (TYP.)
SD CO-72
IE 4" OUT=238.00 (W) (TYP.)
SD CO-37
24 LF – 4"SD S=0.50%
SD CO-36
SD CO-73
119 LF – 4"SD S=0.50%
95 LF – 4"SD S=0.50%
SD CO-54
89 LF – 4"SD S=0.50%
SD CO-35
SD CO-52
30 LF – 4"SD S=0.50%
12 LF – 4"SD S=0.50%
67 LF – 4"SD S=0.50%
SD CO-53
SD CO-34
SD CO-33
48 LF – 4"SD S=0.50%
47 LF – 4"SD S=0.50%
SD CO-74
SD CO-50
26 LF – 4"SD S=0.50%
25 LF – 4"SD S=0.50%
SD CO-75
SD CO-32
SD CO-31
SD CO-51
24 LF – 4"SD S=0.50%
25 LF – 4"SD S=0.50%
33 LF – 4"SD S=0.50%
IE 6" OUT=235.94 (W)
SD CO-76
SD CO-49
10 LF – 4"SD S=0.50%
63 LF – 4"SD S=0.50%
SD CO-77
SD CO-48
30 LF – 4"SD S=0.50%
SD CO-30
26 LF – 4"SD S=0.50%
SD CO-47
8 LF – 4"SD S=0.50%
SD CO-29
SD CO-78
IE 4" OUT=238.00 (E)
SD CO-46
38 LF – 4"SD S=0.50%
7 LF – 4"SD S=0.50%
R3.00'
SD CO-79
152 LF – 4"SD S=0.50%
SD CO-80
157 LF – 4"SD S=0.50%
SD CO-81
SD CO-82
5 LF – 4"SD S=0.50%
SD CO-27
8 LF – 4"SD S=0.50%
SD CO-83
0 LF – 4"SD S=0.00%
33 LF – 4"SD S=0.50%
SD CO-26
SD CO-25
IE 10" OUT=235.28 (W)
71 LF – 4"SD S=0.50%
32 LF – 4"SD S=0.50%
SD CO-45
SD CO-67
SD CO-44
SD CO-84
102 LF – 4"SD S=0.50%
97 LF – 4"SD S=0.50%
102 LF – 4"SD S=0.50%
SD CO-85
SD CO-24
SD CO-86
61 LF – 4"SD S=0.50%
56 LF – 4"SD S=0.50%
65 LF – 4"SD S=0.50%
SD CO-43
UGB

SCALE 1 INCH = 20 FEET
20 0 20 40

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phase	Bid Package 1
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revisions	
project #	17007

C6.51

4/22/2018 9:53:56 AM
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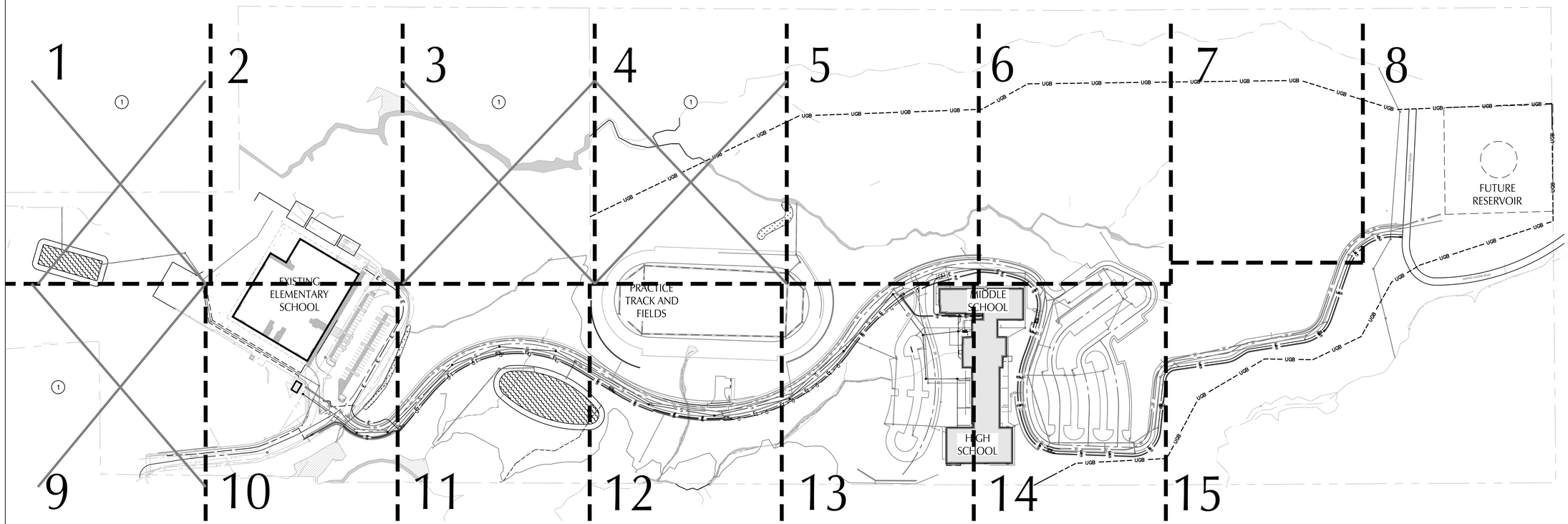

KEY NOTES

1 SHEET EXCLUDED FROM UTILITY PLAN SERIES C7.XX

SHEET LEGEND

- WATER LINE
- FIRE PROTECTION LINE
- STORM DRAIN LINE
- SANITARY SEWER LINE
- ELECTRICAL LINE
- TELECOMMUNICATION LINE
- NATURAL GAS LINE

SCALE 1 INCH = 120 FEET
120 0 120 240

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OVERALL UTILITY PLAN

C7.00

4/5/2018
N:\cip2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C7.00-UTIL-OVERALL.dwg

MATCHLINE SEE SHEET C7.01

MATCHLINE SEE SHEET C7.03

PROPOSED CLASSROOM BUILDING

MATCHLINE SEE SHEET C7.10

SHEET NOTES

1. ON-SITE PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL X/XX.X.
2. STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.
3. ELECTRICAL AND TELECOM ARE VAULTS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLAN FOR DETAILS.

(X) SANITARY SEWER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	INSTALL GREASE INTERCEPTOR. SEE MECHANICAL PLANS.	
2	CONNECT TO PUBLIC SANITARY SEWER MANHOLE IN SPRUCE DRIVE.	
3	INSTALL ACID NEUTRALIZATION TANK. SEE MECHANICAL PLANS FOR DETAILS AND CONTINUATION.	

⟨X⟩ FRANCHISE UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
30	TELECOM SYSTEMS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLANS FOR CONTINUATION AND MORE INFORMATION.	
31	ELECTRICAL SYSTEMS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLANS FOR CONTINUATION AND MORE INFORMATION.	
32	NATURAL GAS SHOWN FOR COORDINATION PURPOSES. COORDINATE LINE AND APPURTENANCE INSTALLATION WITH NW NATURAL GAS COMPANY. PROVIDE STUB FOR FUTURE RESERVOIR SITE.	
33	CAP AND MARK UTILITIES AT RESERVOIR SITE FOR FUTURE USE PER FRANCHISE UTILITY AND CITY STANDARDS.	
34	EXTEND ELECTRICAL TO FUTURE TRANSFORMER LOCATION. SEE ELECTRICAL SITE PLAN.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
S	CONNECT TO WASTE LINE. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	
AR	CONNECT TO TREATED ACID RESISTANT PLUMBING. SEE PLUMBING PLANS FOR PIPING UP TO AND INCLUDING ACID NEUTRALIZATION VAULT.	
T	CONNECT TO BUILDING TELECOMMUNICATIONS. SEE ELECTRICAL PLANS FOR CONTINUATION.	
E	CONNECT TO BUILDING ELECTRICAL. SEE ELECTRICAL PLANS FOR CONTINUATION.	
G	CONNECT TO BUILDING NATURAL GAS. SEE PLUMBING PLANS FOR CONTINUATION.	

SHEET LEGEND

- W — WATER LINE
- FP — FIRE PROTECTION LINE
- STORM DRAIN LINE
- S — SANITARY SEWER LINE
- E — E — ELECTRICAL LINE
- T — T — TELECOMMUNICATION LINE
- G — NATURAL GAS LINE
- PROPERTY LINE

UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)
LOCATION (WHERE APPLICABLE)
STRUCTURE INFO (WHERE APPLICABLE)

XX XX–XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE
SLOPE (WHERE APPLICABLE)

XXLF – XX" XX
S=X.XX%

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AN	ACID NEUTRALIZATION VAULT	
CO	CLEANOUT TO GRADE	
GI	GREASE INTERCEPTOR	
MH	MANHOLE	
STUB	STUB	

SCALE 1 INCH = 20 FEET
20 0 20 40

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revisions	
project #	17007

C7.02

4/5/2018
N:\ic\p2016\16000377-Seaside-Schools\CAD\PLOT\16000377-C7.01-UTIL.dwg

MATCHLINE SEE SHEET C7.04

MATCHLINE SEE SHEET C7.06

MATCHLINE SEE SHEET C7.13

POE S-A
19+01.06
N 1662285.90
E 479840.23

10+00.00
N 1662285.90
E 479840.23

SHEET NOTES

1. ON-SITE PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL X/XX.X.
2. STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.
3. ELECTRICAL AND TELECOM ARE VAULTS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLAN FOR DETAILS.

(X) SANITARY SEWER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	INSTALL GREASE INTERCEPTOR. SEE MECHANICAL PLANS.	
2	CONNECT TO PUBLIC SANITARY SEWER MANHOLE IN SPRUCE DRIVE.	
3	INSTALL ACID NEUTRALIZATION TANK. SEE MECHANICAL PLANS FOR DETAILS AND CONTINUATION.	

(X) FRANCHISE UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
30	TELECOM SYSTEMS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLANS FOR CONTINUATION AND MORE INFORMATION.	
31	ELECTRICAL SYSTEMS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLANS FOR CONTINUATION AND MORE INFORMATION.	
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33	CAP AND MARK UTILITIES AT RESERVOIR SITE FOR FUTURE USE PER FRANCHISE UTILITY AND CITY STANDARDS.	
34	EXTEND ELECTRICAL TO FUTURE TRANSFORMER LOCATION. SEE ELECTRICAL SITE PLAN.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
S	CONNECT TO WASTE LINE. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	
AR	CONNECT TO TREATED ACID RESISTANT PLUMBING. SEE PLUMBING PLANS FOR PIPING UP TO AND INCLUDING ACID NEUTRALIZATION VAULT.	
T	CONNECT TO BUILDING TELECOMMUNICATIONS. SEE ELECTRICAL PLANS FOR CONTINUATION.	
E	CONNECT TO BUILDING ELECTRICAL. SEE ELECTRICAL PLANS FOR CONTINUATION.	
G	CONNECT TO BUILDING NATURAL GAS. SEE PLUMBING PLANS FOR CONTINUATION.	

SHEET LEGEND

- W — WATER LINE
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- E — E — ELECTRICAL LINE
- T — T — TELECOMMUNICATION LINE
- G — NATURAL GAS LINE
- PROPERTY LINE

UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)
LOCATION (WHERE APPLICABLE)
STRUCTURE INFO (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

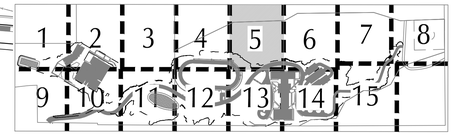
PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE
SLOPE (WHERE APPLICABLE)

XXLF - XX" XX
S=X.XX%

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AN	ACID NEUTRALIZATION VAULT	
CO	CLEANOUT TO GRADE	
GI	GREASE INTERCEPTOR	
MH	MANHOLE	
STUB	STUB	



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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revisions	
project #	17007

UTILITY PLAN

C7.05

4/5/2018
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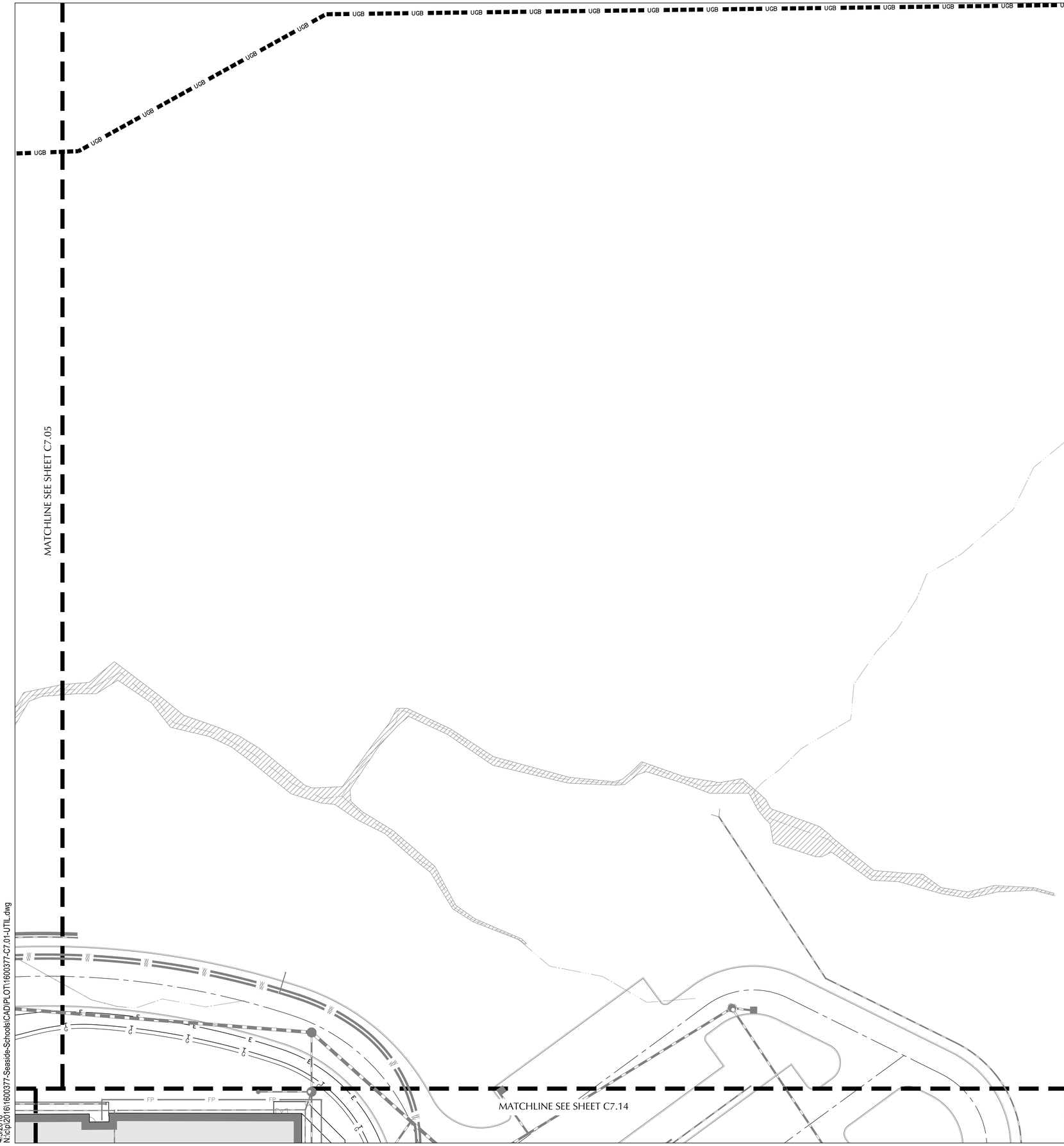

SHEET NOTES

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2. STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.
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[X] SANITARY SEWER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	INSTALL GREASE INTERCEPTOR. SEE MECHANICAL PLANS.	
2	CONNECT TO PUBLIC SANITARY SEWER MANHOLE IN SPRUCE DRIVE.	
3	INSTALL ACID NEUTRALIZATION TANK. SEE MECHANICAL PLANS FOR DETAILS AND CONTINUATION.	

⟨X⟩ FRANCHISE UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
30	TELECOM SYSTEMS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLANS FOR CONTINUATION AND MORE INFORMATION.	
31	ELECTRICAL SYSTEMS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLANS FOR CONTINUATION AND MORE INFORMATION.	
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34	EXTEND ELECTRICAL TO FUTURE TRANSFORMER LOCATION. SEE ELECTRICAL SITE PLAN.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
S	CONNECT TO WASTE LINE. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	
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SHEET LEGEND

- W — WATER LINE
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- STORM DRAIN LINE
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- G — NATURAL GAS LINE
- PROPERTY LINE

UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)
LOCATION (WHERE APPLICABLE)
STRUCTURE INFO (WHERE APPLICABLE)

```
XX XX-XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X
```

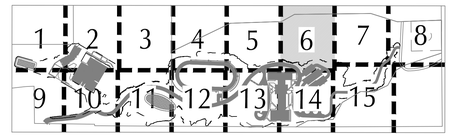
PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE
SLOPE (WHERE APPLICABLE)

```
XXLF - XX" XX
S=X.XX%
```

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AN	ACID NEUTRALIZATION VAULT	
CO	CLEANOUT TO GRADE	
GI	GREASE INTERCEPTOR	
MH	MANHOLE	
STUB	STUB	



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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project #	17007

UTILITY PLAN

C7.06

4/5/2018
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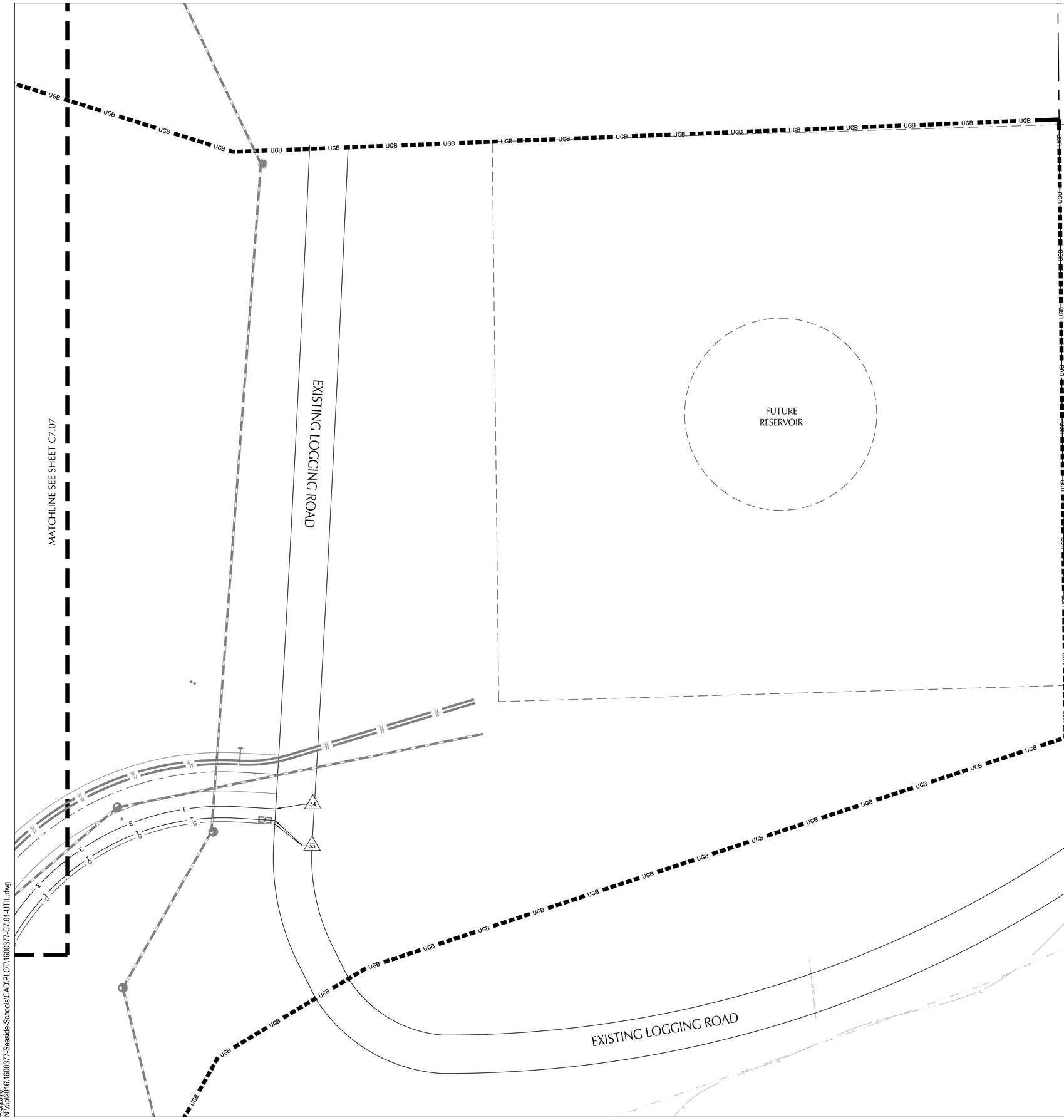
UGB UGB UGB



SHEET NOTES

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[X] SANITARY SEWER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	INSTALL GREASE INTERCEPTOR. SEE MECHANICAL PLANS.	
2	CONNECT TO PUBLIC SANITARY SEWER MANHOLE IN SPRUCE DRIVE.	
3	INSTALL ACID NEUTRALIZATION TANK. SEE MECHANICAL PLANS FOR DETAILS AND CONTINUATION.	

⚠X FRANCHISE UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
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31	ELECTRICAL SYSTEMS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLANS FOR CONTINUATION AND MORE INFORMATION.	
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(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
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SHEET LEGEND

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- PROPERTY LINE

UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)
LOCATION (WHERE APPLICABLE)
STRUCTURE INFO (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

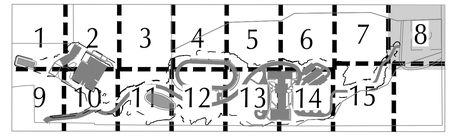
PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE
SLOPE (WHERE APPLICABLE)

XXLF – XX" XX
S=X.XX%

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AN	ACID NEUTRALIZATION VAULT	
CO	CLEANOUT TO GRADE	
GI	GREASE INTERCEPTOR	
MH	MANHOLE	
STUB	STUB	



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

UTILITY PLAN

C7.08

4/5/2018
N:\ic\p2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C7.01-UTIL.dwg

MATCHLINE SEE SHEET C7.02

MATCHLINE SEE SHEET C7.09

MATCHLINE SEE SHEET C7.11

2000 SPRUCE DRIVE
SEASIDE HEIGHTS ELEMENTARY SCHOOL
1-STORY
WOOD FRAME

EXISTING
ELEMENTARY
SCHOOL

S EXMH-02
RIM=65.00
IE IN=59.87 (NE)
IE OUT=59.72 (SW)

2 CONNECT TO EXISTING PIPE
S MH-13
RIM=68.96
IE IN=57.42 (NE)
IE 8" IN=57.62 (SE)
IE OUT=57.42 (SW)
FIELD VERIFY POINT
OF CONNECTION

POB S-A
0+00.00
N 1662012.94
E 478228.31

0+00

181 LF - 8"S
S=2.70%

1+00

2+00

85 LF - 8"S
S=5.32%

3+00

30

S MH-12
RIM=70.07
IE 8" IN=62.69 (E)
IE 8" OUT=62.49 (NW)

S MH-11
RIM=74.20
IE 8" IN=67.40 (NE)
IE 8" OUT=67.20 (W)

S EXMH-01
RIM=60.68
IE IN=53.73 (NE)
IE OUT=53.38 (W)

SHEET NOTES

1. ON-SITE PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL X/XX.X.
2. STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.
3. ELECTRICAL AND TELECOM ARE VAULTS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLAN FOR DETAILS.

(X) SANITARY SEWER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	INSTALL GREASE INTERCEPTOR. SEE MECHANICAL PLANS.	
2	CONNECT TO PUBLIC SANITARY SEWER MANHOLE IN SPRUCE DRIVE.	
3	INSTALL ACID NEUTRALIZATION TANK. SEE MECHANICAL PLANS FOR DETAILS AND CONTINUATION.	

(X) FRANCHISE UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
30	TELECOM SYSTEMS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLANS FOR CONTINUATION AND MORE INFORMATION.	
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32	NATURAL GAS SHOWN FOR COORDINATION PURPOSES. COORDINATE LINE AND APPURTENANCE INSTALLATION WITH NW NATURAL GAS COMPANY. PROVIDE STUB FOR FUTURE RESERVOIR SITE.	
33	CAP AND MARK UTILITIES AT RESERVOIR SITE FOR FUTURE USE PER FRANCHISE UTILITY AND CITY STANDARDS.	
34	EXTEND ELECTRICAL TO FUTURE TRANSFORMER LOCATION. SEE ELECTRICAL SITE PLAN.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
S	CONNECT TO WASTE LINE. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	
AR	CONNECT TO TREATED ACID RESISTANT PLUMBING. SEE PLUMBING PLANS FOR PIPING UP TO AND INCLUDING ACID NEUTRALIZATION VAULT.	
T	CONNECT TO BUILDING TELECOMMUNICATIONS. SEE ELECTRICAL PLANS FOR CONTINUATION.	
E	CONNECT TO BUILDING ELECTRICAL. SEE ELECTRICAL PLANS FOR CONTINUATION.	
G	CONNECT TO BUILDING NATURAL GAS. SEE PLUMBING PLANS FOR CONTINUATION.	

SHEET LEGEND

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- E — E — ELECTRICAL LINE
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- G — NATURAL GAS LINE
- PROPERTY LINE

UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)
LOCATION (WHERE APPLICABLE)
STRUCTURE INFO (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE
SLOPE (WHERE APPLICABLE)

XXLF - XX" XX
S=X.XX%

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AN	ACID NEUTRALIZATION VAULT	
CO	CLEANOUT TO GRADE	
GI	GREASE INTERCEPTOR	
MH	MANHOLE	
STUB	STUB	

KEY MAP

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15

SCALE 1 INCH = 20 FEET
20 0 20 40

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UTILITY PLAN

C7.10

4/5/2018
N:\cip\2016\16003 77-Seaside-Schools\CAD\PLOT\16003 77-C7.01-UTIL.dwg

MATCHLINE SEE SHEET C7.03

MATCHLINE SEE SHEET C7.10

MATCHLINE SEE SHEET C7.12

S MH-09
RIM=112.47
IE 8" IN=106.75 (E)
IE 8" OUT=106.55 (W)

S MH-10
RIM=98.34
IE 8" IN=92.29 (E)
IE 8" OUT=92.09 (SW)

S MH-08
RIM=128.24
IE 8" IN=121.60 (SE)
IE 8" OUT=121.40 (W)

EXTENDED DRY BASIN

SHEET NOTES

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(X) SANITARY SEWER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	INSTALL GREASE INTERCEPTOR. SEE MECHANICAL PLANS.	
2	CONNECT TO PUBLIC SANITARY SEWER MANHOLE IN SPRUCE DRIVE.	
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(X) FRANCHISE UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
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(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
S	CONNECT TO WASTE LINE. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	
AR	CONNECT TO TREATED ACID RESISTANT PLUMBING. SEE PLUMBING PLANS FOR PIPING UP TO AND INCLUDING ACID NEUTRALIZATION VAULT.	
T	CONNECT TO BUILDING TELECOMMUNICATIONS. SEE ELECTRICAL PLANS FOR CONTINUATION.	
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- G — NATURAL GAS LINE
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UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)
LOCATION (WHERE APPLICABLE)
STRUCTURE INFO (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

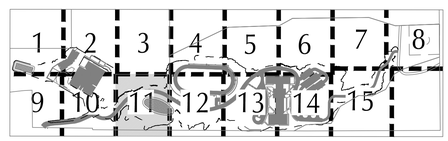
PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE
SLOPE (WHERE APPLICABLE)

XXLF – XX" XX
S=X.XX%

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AN	ACID NEUTRALIZATION VAULT	
CO	CLEANOUT TO GRADE	
GI	GREASE INTERCEPTOR	
MH	MANHOLE	
STUB	STUB	



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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UTILITY PLAN

C7.11

4/5/2018
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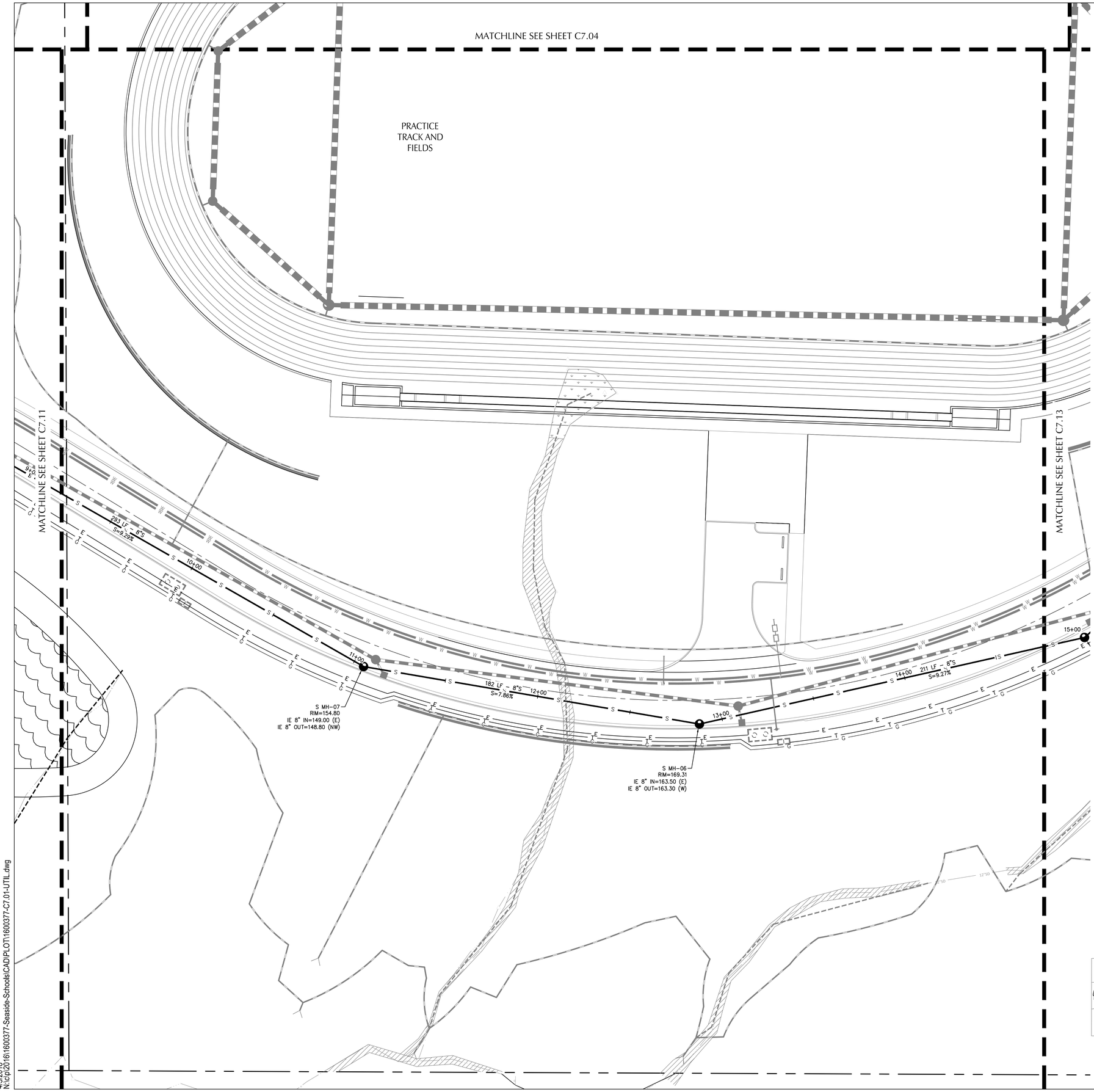

SHEET NOTES

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[X] SANITARY SEWER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	INSTALL GREASE INTERCEPTOR. SEE MECHANICAL PLANS.	
2	CONNECT TO PUBLIC SANITARY SEWER MANHOLE IN SPRUCE DRIVE.	
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(X) FRANCHISE UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
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(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
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SHEET LEGEND

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UTILITY LABEL LEGEND

STRUCTURE LABEL

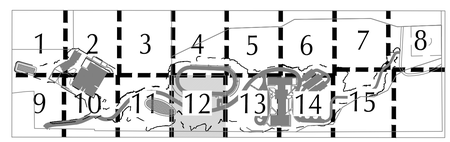
UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
STRUCTURE TYPE CALLOUT
XX XX-XX — ID NUMBER (WHERE APPLICABLE)
N=XXXX.XX
E=XXXX.XX — LOCATION (WHERE APPLICABLE)
RIM=
IE IN = XX.X
IE OUT = XX.X — STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
XXLF - XX" XX — UTILITY TYPE
S=X.XX% — SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AN	ACID NEUTRALIZATION VAULT	
CO	CLEANOUT TO GRADE	
GI	GREASE INTERCEPTOR	
MH	MANHOLE	
STUB	STUB	



KEY MAP

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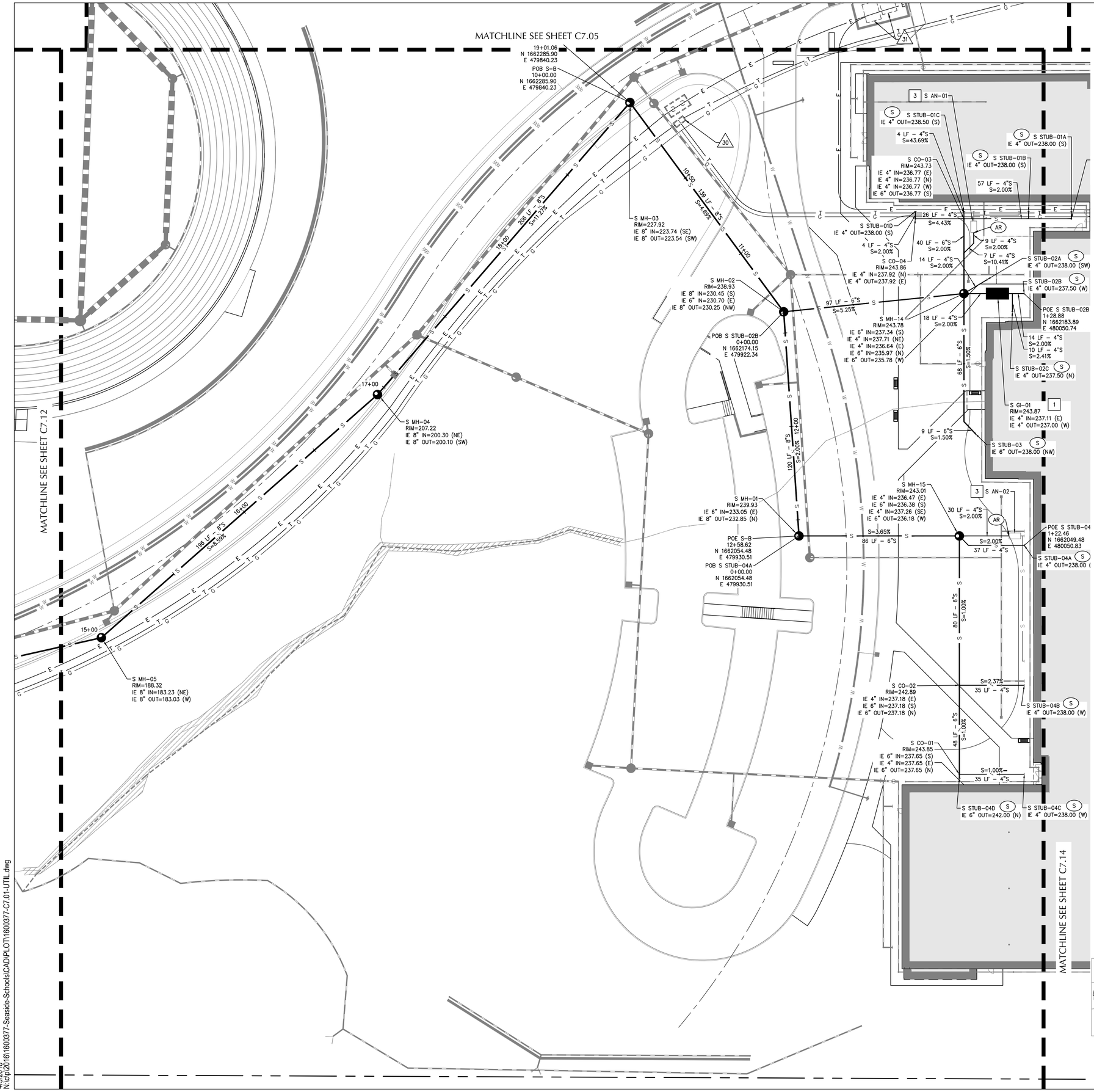
revisions	
project #	17007

UTILITY PLAN

C7.12

4/5/2018
N:\cip\2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C7.01-UTIL.dwg



SHEET NOTES

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X SANITARY SEWER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	INSTALL GREASE INTERCEPTOR. SEE MECHANICAL PLANS.	
2	CONNECT TO PUBLIC SANITARY SEWER MANHOLE IN SPRUCE DRIVE.	
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X FRANCHISE UTILITY KEY NOTES

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X BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
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UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
STRUCTURE TYPE CALLOUT
ID NUMBER (WHERE APPLICABLE)
LOCATION (WHERE APPLICABLE)
STRUCTURE INFO (WHERE APPLICABLE)

```
XX XX-XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X
```

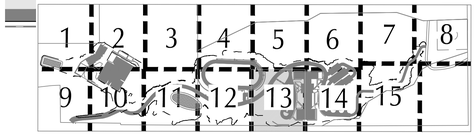
PIPE LABEL

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE
SLOPE (WHERE APPLICABLE)

```
XXLF – XX" XX
S=X.XX%
```

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AN	ACID NEUTRALIZATION VAULT	
CO	CLEANOUT TO GRADE	
GI	GREASE INTERCEPTOR	
MH	MANHOLE	
STUB	STUB	



KEY MAP

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20 0 20 40

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project #	17007

UTILITY PLAN

C7.13

4/5/2018
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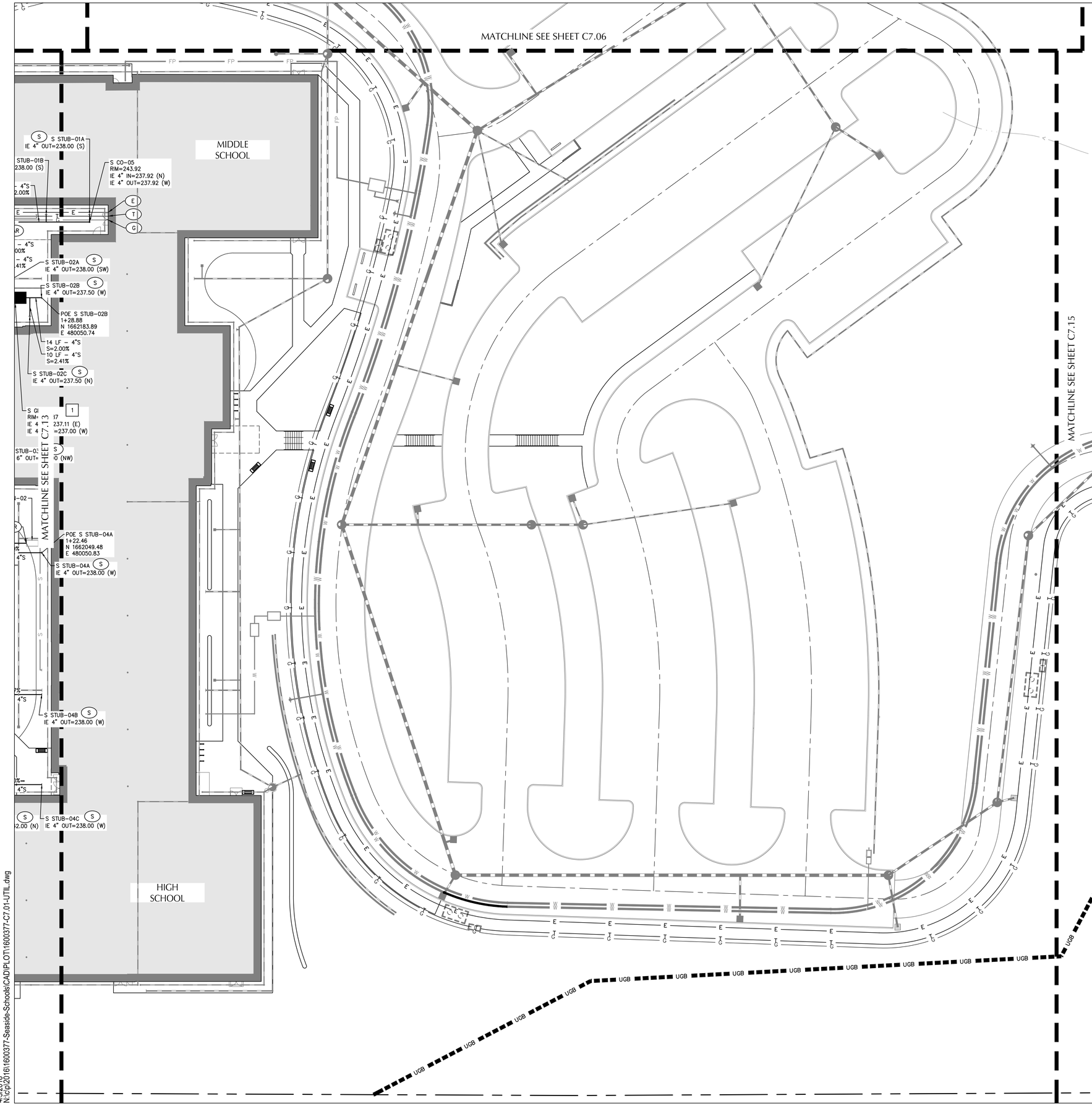

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(X) SANITARY SEWER KEY NOTES

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(X) FRANCHISE UTILITY KEY NOTES

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- PROPERTY LINE

UTILITY LABEL LEGEND

STRUCTURE LABEL

- UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
- STRUCTURE TYPE CALLOUT
- ID NUMBER (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

- LOCATION (WHERE APPLICABLE)
- STRUCTURE INFO (WHERE APPLICABLE)

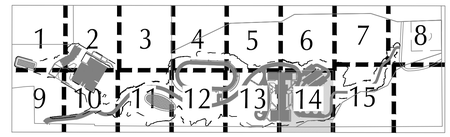
PIPE LABEL

- UTILITY LENGTH
- UTILITY SIZE
- UTILITY TYPE
- SLOPE (WHERE APPLICABLE)

XXLF - XX" XX
S=X.XX%

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AN	ACID NEUTRALIZATION VAULT	
CO	CLEANOUT TO GRADE	
GI	GREASE INTERCEPTOR	
MH	MANHOLE	
STUB	STUB	



KEY MAP

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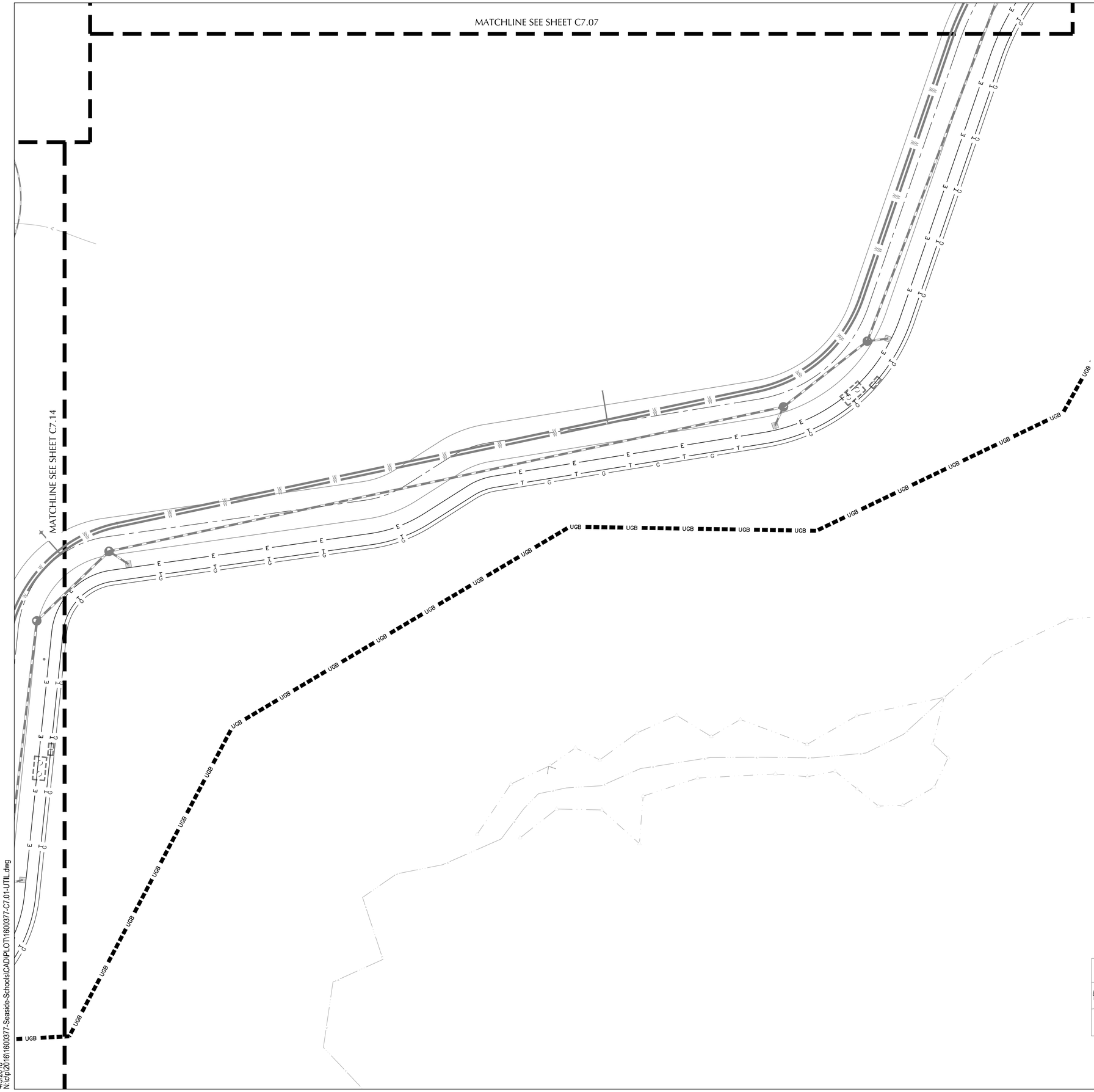
UTILITY PLAN

C7.14

4/5/2018
N:\cip\2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C7.01-UTIL.dwg



SHEET NOTES

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(X) SANITARY SEWER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
1	INSTALL GREASE INTERCEPTOR. SEE MECHANICAL PLANS.	
2	CONNECT TO PUBLIC SANITARY SEWER MANHOLE IN SPRUCE DRIVE.	
3	INSTALL ACID NEUTRALIZATION TANK. SEE MECHANICAL PLANS FOR DETAILS AND CONTINUATION.	

⟨X⟩ FRANCHISE UTILITY KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
30	TELECOM SYSTEMS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLANS FOR CONTINUATION AND MORE INFORMATION.	
31	ELECTRICAL SYSTEMS SHOWN FOR COORDINATION PURPOSES. SEE ELECTRICAL SITE PLANS FOR CONTINUATION AND MORE INFORMATION.	
32	NATURAL GAS SHOWN FOR COORDINATION PURPOSES. COORDINATE LINE AND APPURTENANCE INSTALLATION WITH NW NATURAL GAS COMPANY. PROVIDE STUB FOR FUTURE RESERVOIR SITE.	
33	CAP AND MARK UTILITIES AT RESERVOIR SITE FOR FUTURE USE PER FRANCHISE UTILITY AND CITY STANDARDS.	
34	EXTEND ELECTRICAL TO FUTURE TRANSFORMER LOCATION. SEE ELECTRICAL SITE PLAN.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
S	CONNECT TO WASTE LINE. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	
AR	CONNECT TO TREATED ACID RESISTANT PLUMBING. SEE PLUMBING PLANS FOR PIPING UP TO AND INCLUDING ACID NEUTRALIZATION VAULT.	
T	CONNECT TO BUILDING TELECOMMUNICATIONS. SEE ELECTRICAL PLANS FOR CONTINUATION.	
E	CONNECT TO BUILDING ELECTRICAL. SEE ELECTRICAL PLANS FOR CONTINUATION.	
G	CONNECT TO BUILDING NATURAL GAS. SEE PLUMBING PLANS FOR CONTINUATION.	

SHEET LEGEND

- W — WATER LINE
- FP — FIRE PROTECTION LINE
- STORM DRAIN LINE
- S — SANITARY SEWER LINE
- E — ELECTRICAL LINE
- T — TELECOMMUNICATION LINE
- G — NATURAL GAS LINE
- PROPERTY LINE

UTILITY LABEL LEGEND

STRUCTURE LABEL

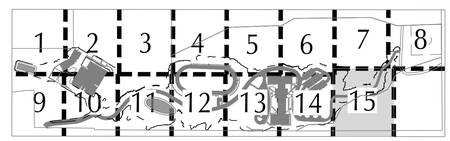
XX XX-XX — UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION); STRUCTURE TYPE CALLOUT; ID NUMBER (WHERE APPLICABLE)
N=XXXX.XX, E=XXXX.XX — LOCATION (WHERE APPLICABLE)
RIM=, IE IN = XX.X, IE OUT = XX.X — STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

XXLF – XX" XX — UTILITY LENGTH; UTILITY SIZE; UTILITY TYPE
S=X.XX% — SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AN	ACID NEUTRALIZATION VAULT	
CO	CLEANOUT TO GRADE	
GI	GREASE INTERCEPTOR	
MH	MANHOLE	
STUB	STUB	



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

BRIC ARCHITECTURE, INC.
1233 NW NORTHRUP STREET, SUITE 100
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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

UTILITY PLAN

C7.15

4/5/2018
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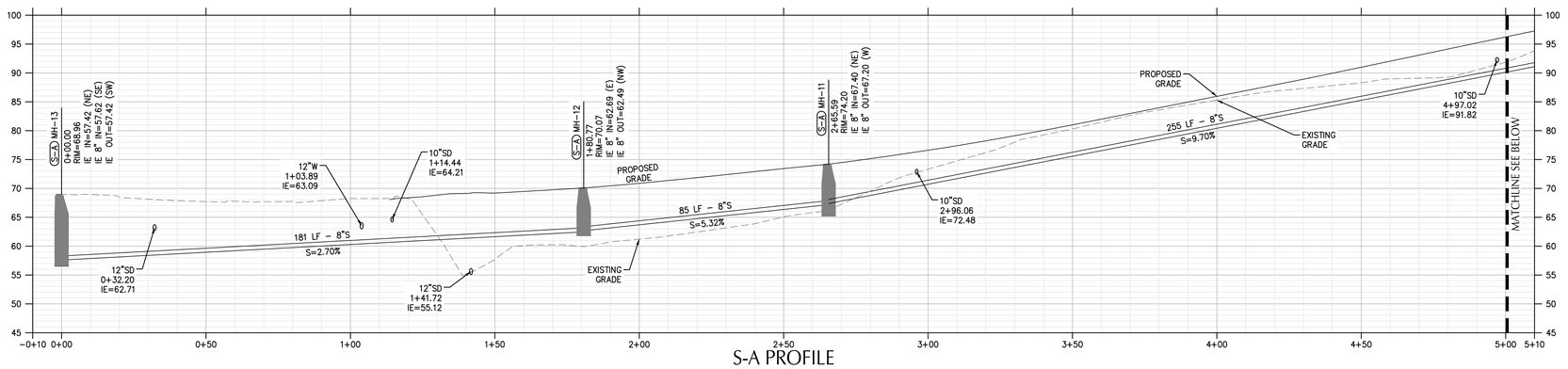
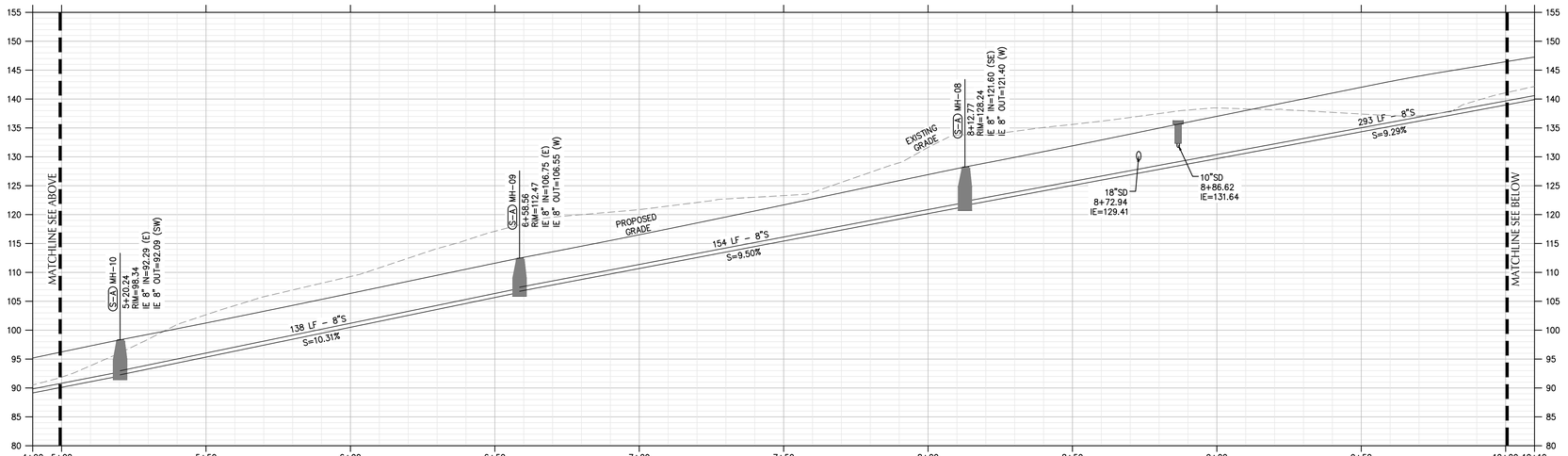


S-A PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



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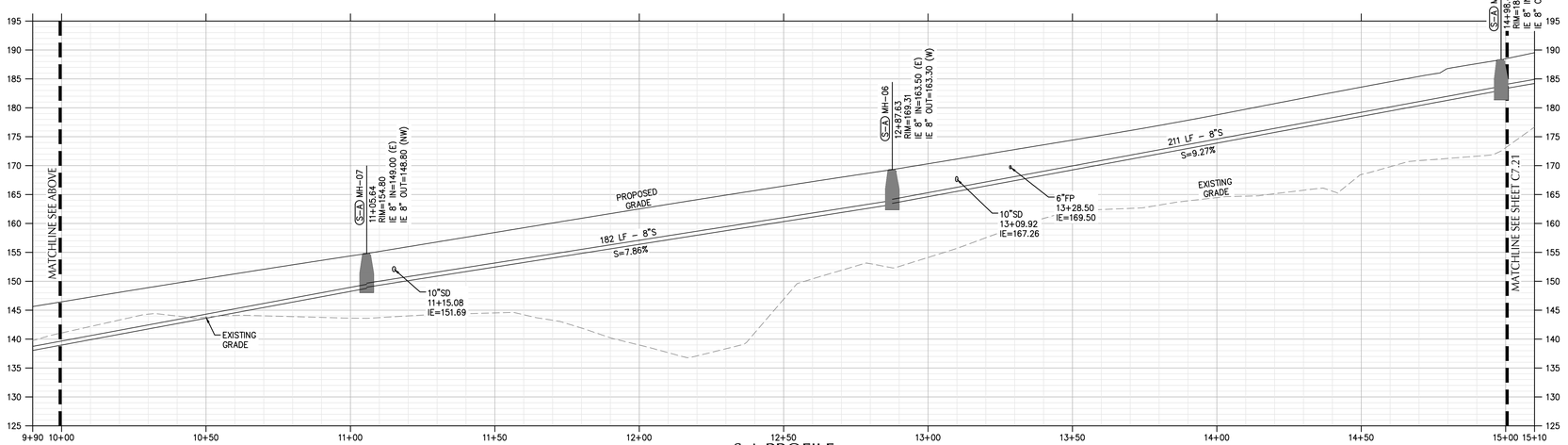

S-A PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'

SCALE 1 INCH = 20 FEET
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UTILITY PROFILES

C7.20

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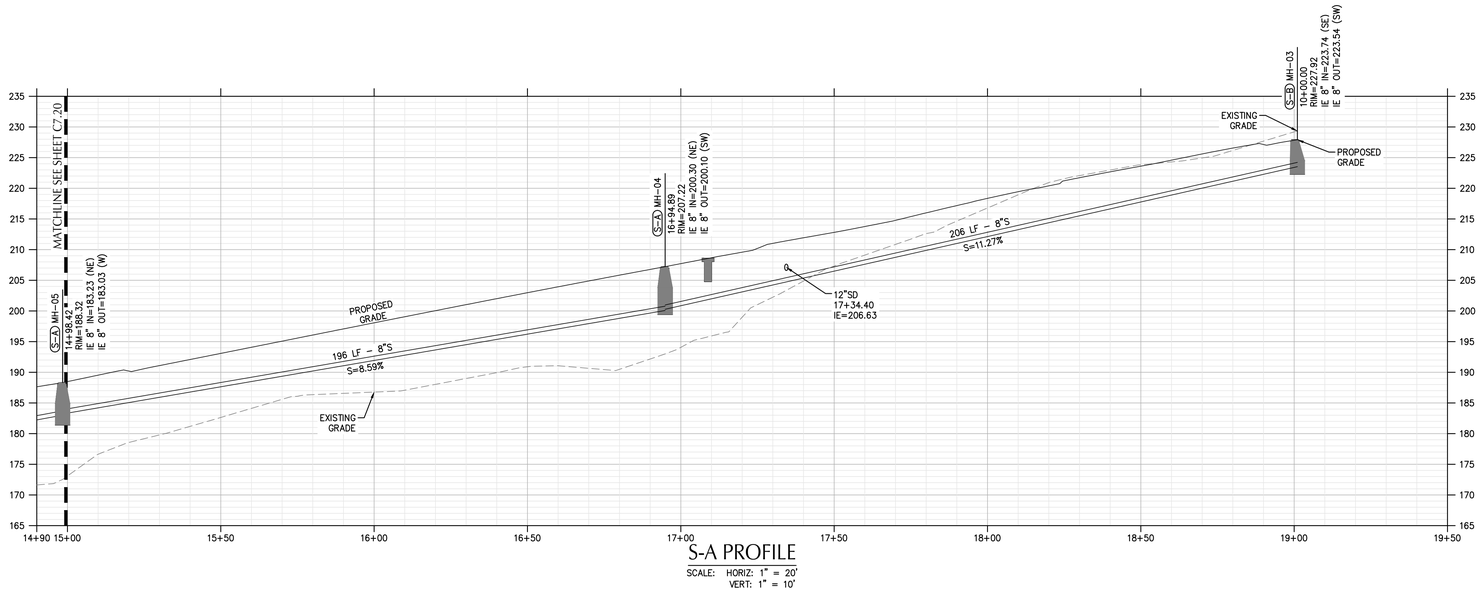

S-A PROFILE

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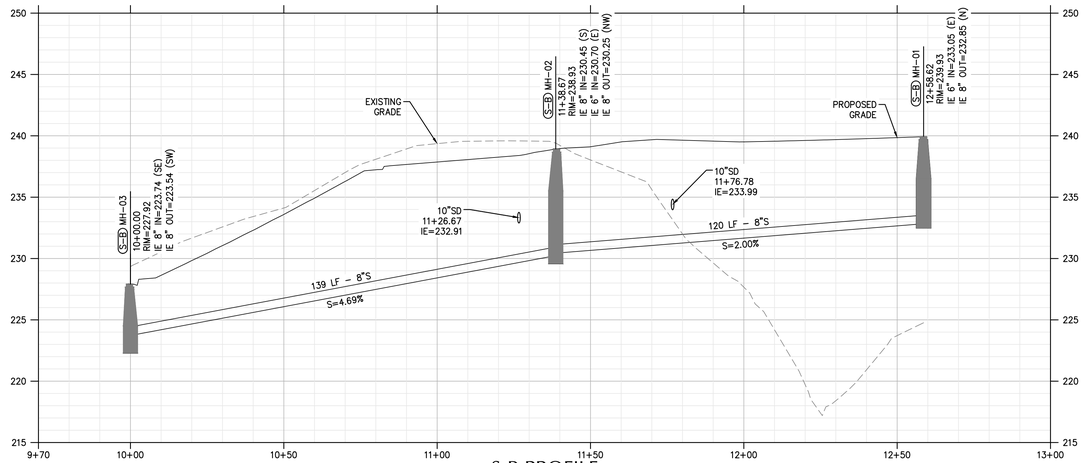
VERT: 1" = 10'



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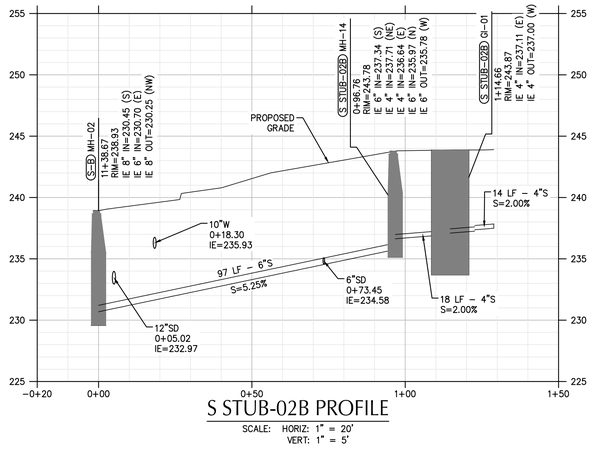
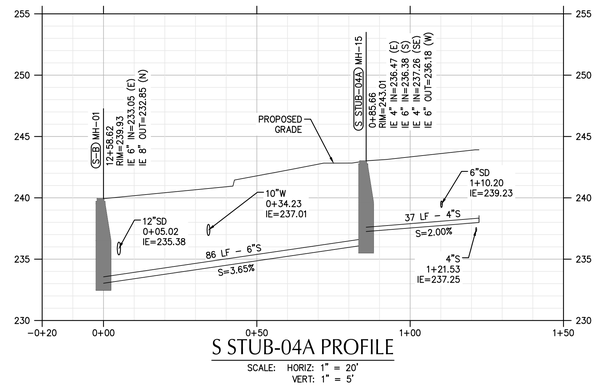


S STUB-02B PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'



S STUB-04A PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

SCALE 1 INCH = 20 FEET
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revisions	
project #	17007

UTILITY PROFILES

C7.21

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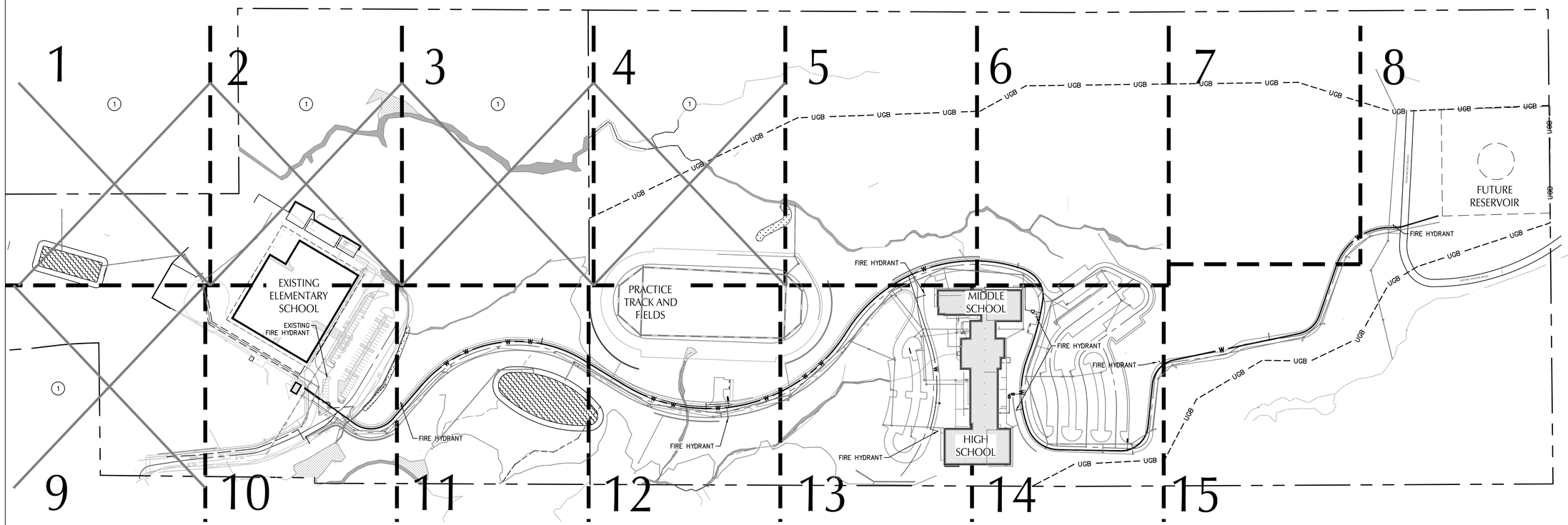

KEY NOTES

1 SHEET EXCLUDED FROM UTILITY PLAN SERIES C8.XX

SHEET LEGEND

- W — WATER LINE
- FP — FIRE PROTECTION LINE
- STORM DRAIN LINE
- S — SANITARY SEWER LINE
- E — ELECTRICAL LINE
- T — TELECOMMUNICATION LINE
- G — NATURAL GAS LINE

SCALE 1 INCH = 120 FEET
120 0 120 240

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revisions	
project #	17007

OVERALL WATER PLAN

C8.00

4/5/2018
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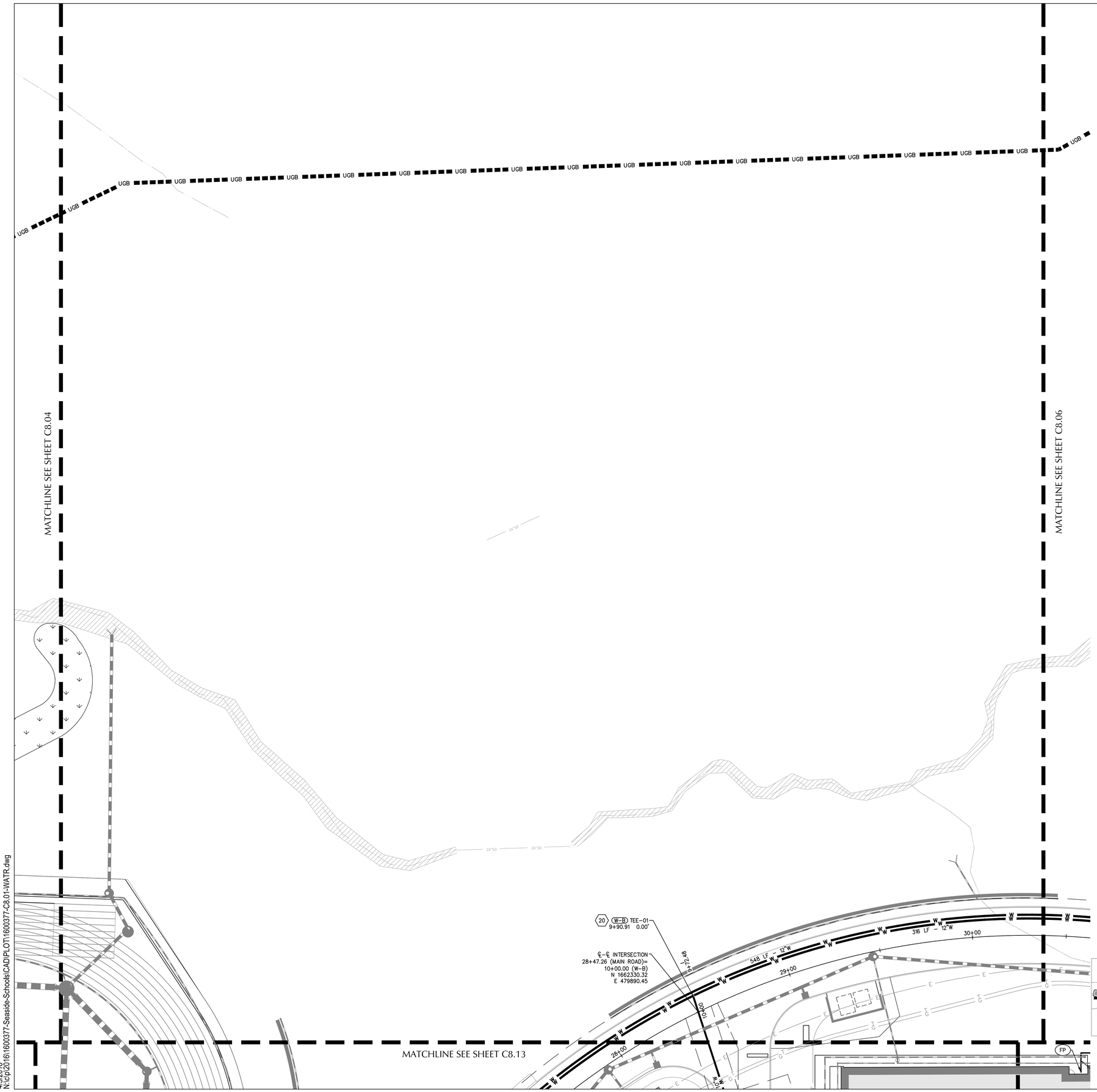


SHEET NOTES

1. WATER MAIN PIPE BEDDING AND BACKFILL PER STANDARD DETAIL X/X
2. FUSED HDPE WATER MAINS SHALL BE FIELD FIT TO MATCH COVER SHOWN. COVER TO FINISH GRADE SHALL BE BETWEEN 30" AND 48" UNLESS NOTED OTHERWISE.
3. NO WATER MAIN HORIZONTAL OR VERTICAL BENDS SHALL EXCEED MINIMUM RADIUS FOR PIPE SIZE, MATERIAL, AND WALL THICKNESS AS INDICATED IN THE SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.
4. WATER MAIN VERTICAL SEPARATION AT UTILITY CROSSINGS IS AS SHOWN. 1–FT MINIMUM UNLESS NOTED OTHERWISE.
5. INSTALL CDF TRENCH DAMS AT APPROXIMATELY 300–FT INTERVAL PER DETAIL X/X.XX IN WATER MAIN TRENCHES FOR PIPES 10" AND LARGER.

(X) WATER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
10	INSTALL DOUBLE CHECK ASSEMBLY IN VAULT. SIZE TO MATCH METER.	
11	CONNECT DOMESTIC WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE. SIZE AS NOTED.	
12	INSTALL FIRE HYDRANT AND LINE. CONNECT TO NEW WATER MAIN WITH TEE AND GATE VALVE. INSTALL (2) BOLLARDS AT EACH HYDRANT.	
13	INSTALL 6" FIRE WATER SERVICE AND DOUBLE CHECK DETECTOR ASSEMBLY IN VAULT. SLOPE LINE TO MECHANICAL ROOM.	
14	CONNECT 6" FIRE WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE.	
15	CONNECT NEW 10" WATER MAIN TO EXISTING 10" WATER MAIN WITH TEE AND GATE VALVE.	
16	CAP AND SURVEY END OF WATER MAIN(S) FOR FUTURE USE.	
17	INSTALL 3" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	
18	CONNECT 3" IRRIGATION WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH 12"X12"X4" TEE AND 4"X3" REDUCER.	
19	INSTALL 6" FIRE DEPARTMENT CONNECTION. SLOPE LINE TO DRIP VALVE IN VAULT.	
20	INSTALL 10"X12"X12" TEE IN NEW WATER MAIN WITH GATE VALVE ON EACH LEG.	
21	INSTALL VALVING AND STUB OUTS TO BOOSTER STATION: A) 10" WATER MAIN EXTENSION FROM EX 10" MAIN IN SPRUCE DR. B) 12" DISTRIBUTION LINE FROM RESERVOIR. C) 12" DIRECT RESERVOIR FILL LINE.	
22	INSTALL DEAD END BLOWOFF ASSEMBLY AT WATER MAIN TERMINATION.	
23	INSTALL AIR RELEASE ASSEMBLY WITH CURB STOP AND NIPPLE IN BOX BEHIND CURB.	
24	INSTALL 4" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
FP	CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.	
IR	IRRIGATION POINT OF CONNECTION TO BACKFLOW PREVENTION. SEE IRRIGATION PLANS FOR CONTINUATION.	
W	CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	

UTILITY LABEL LEGEND

STRUCTURE LABEL

- UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
- STRUCTURE TYPE CALLOUT
- ID NUMBER (WHERE APPLICABLE)
- LOCATION (WHERE APPLICABLE)
- STRUCTURE INFO (WHERE APPLICABLE)

```
XX XX–XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X
```

PIPE LABEL

- UTILITY LENGTH
- UTILITY SIZE
- UTILITY TYPE
- SLOPE (WHERE APPLICABLE)

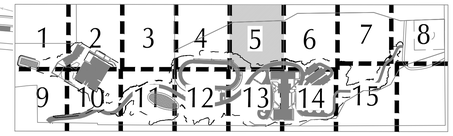
```
XXLF – XX" XX
S=X.XX%
```

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AR	AIR RELEASE ASSEMBLY	
BO	DEAD–END BLOWOFF ASSEMBLY	
DCVA	DOUBLE CHECK VALVE ASSEMBLY	
DDCV	DOUBLE DETECTOR CHECK VALVE	
FDC	FIRE DEPARTMENT CONNECTION	
FH	FIRE HYDRANT	
HB	HORIZONTAL BEND	
PIV	POST INDICATOR VALVE	
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY	
STUB	STUB	
TEE	TEE CONNECTION	
VB	VERTICAL BEND FITTING	
WM	WATER METER	

SHEET LEGEND

- W — WATER LINE
- FP — FIRE PROTECTION LINE
- STORM DRAIN LINE
- S — SANITARY SEWER LINE
- E — ELECTRICAL LINE
- T — TELECOMMUNICATION LINE
- G — NATURAL GAS LINE
- PROPERTY LINE
- PUBLIC UTILITY EASEMENT



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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date	4/5/2018
revisions	
project #	17007

WATER PLAN

C8.05

4/5/2018
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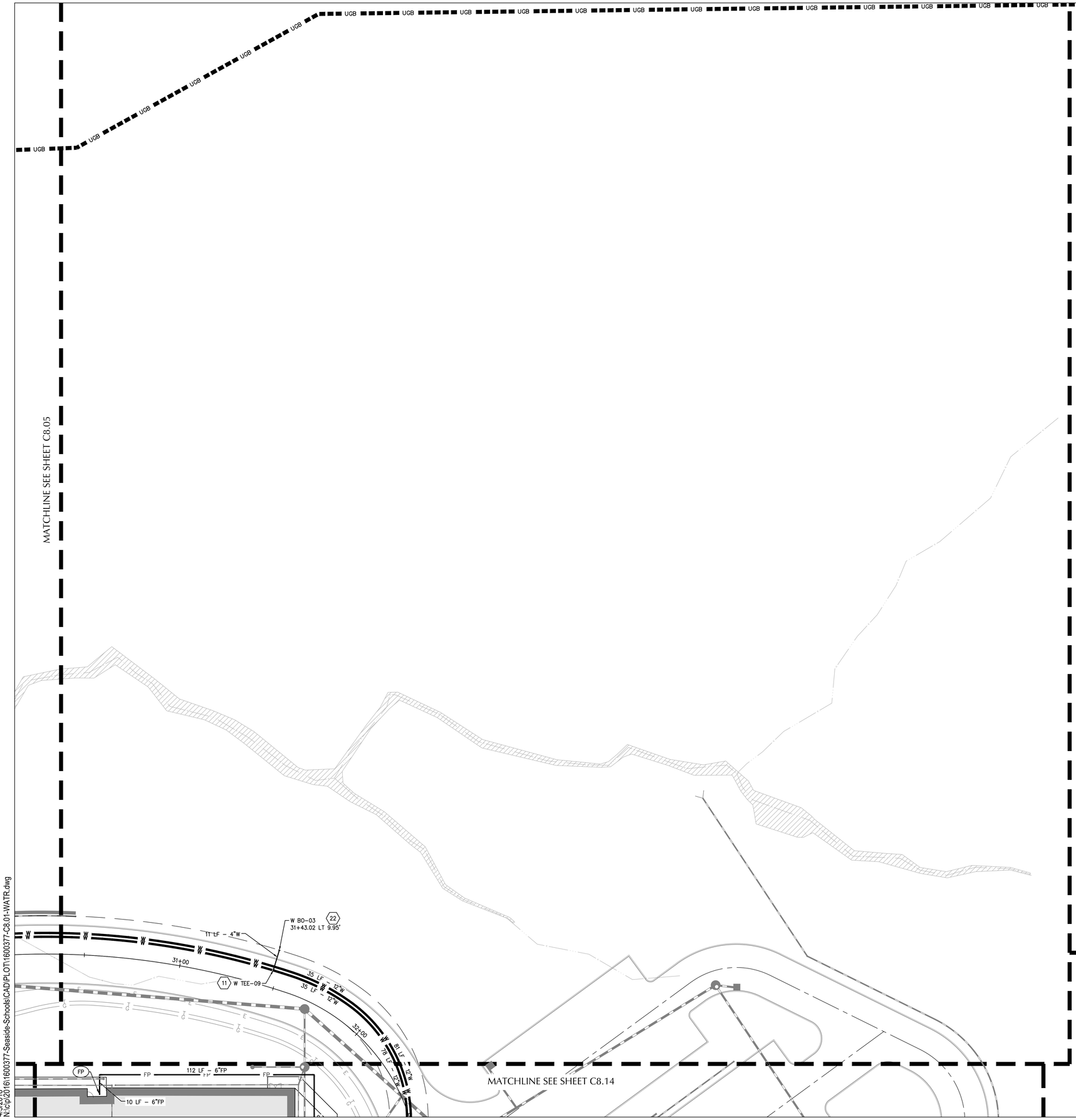

SHEET NOTES

1. WATER MAIN PIPE BEDDING AND BACKFILL PER STANDARD DETAIL X/X
2. FUSED HDPE WATER MAINS SHALL BE FIELD FIT TO MATCH COVER SHOWN. COVER TO FINISH GRADE SHALL BE BETWEEN 30" AND 48" UNLESS NOTED OTHERWISE.
3. NO WATER MAIN HORIZONTAL OR VERTICAL BENDS SHALL EXCEED MINIMUM RADIUS FOR PIPE SIZE, MATERIAL, AND WALL THICKNESS AS INDICATED IN THE SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.
4. WATER MAIN VERTICAL SEPARATION AT UTILITY CROSSINGS IS AS SHOWN. 1–FT MINIMUM UNLESS NOTED OTHERWISE.
5. INSTALL CDF TRENCH DAMS AT APPROXIMATELY 300–FT INTERVAL PER DETAIL X/X.XX IN WATER MAIN TRENCHES FOR PIPES 10" AND LARGER.

(X) WATER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
10	INSTALL DOUBLE CHECK ASSEMBLY IN VAULT. SIZE TO MATCH METER.	
11	CONNECT DOMESTIC WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE. SIZE AS NOTED.	
12	INSTALL FIRE HYDRANT AND LINE. CONNECT TO NEW WATER MAIN WITH TEE AND GATE VALVE. INSTALL (2) BOLLARDS AT EACH HYDRANT.	
13	INSTALL 6" FIRE WATER SERVICE AND DOUBLE CHECK DETECTOR ASSEMBLY IN VAULT. SLOPE LINE TO MECHANICAL ROOM.	
14	CONNECT 6" FIRE WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE.	
15	CONNECT NEW 10" WATER MAIN TO EXISTING 10" WATER MAIN WITH TEE AND GATE VALVE.	
16	CAP AND SURVEY END OF WATER MAIN(S) FOR FUTURE USE.	
17	INSTALL 3" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	
18	CONNECT 3" IRRIGATION WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH 12"X12"X4" TEE AND 4"X3" REDUCER.	
19	INSTALL 6" FIRE DEPARTMENT CONNECTION. SLOPE LINE TO DRIP VALVE IN VAULT.	
20	INSTALL 10"X12"X12" TEE IN NEW WATER MAIN WITH GATE VALVE ON EACH LEG.	
21	INSTALL VALVING AND STUB OUTS TO BOOSTER STATION: A) 10" WATER MAIN EXTENSION FROM EX 10" MAIN IN SPRUCE DR. B) 12" DISTRIBUTION LINE FROM RESERVOIR. C) 12" DIRECT RESERVOIR FILL LINE.	
22	INSTALL DEAD END BLOWOFF ASSEMBLY AT WATER MAIN TERMINATION.	
23	INSTALL AIR RELEASE ASSEMBLY WITH CURB STOP AND NIPPLE IN BOX BEHIND CURB.	
24	INSTALL 4" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
FP	CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.	
IR	IRRIGATION POINT OF CONNECTION TO BACKFLOW PREVENTION. SEE IRRIGATION PLANS FOR CONTINUATION.	
W	CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	

UTILITY LABEL LEGEND

STRUCTURE LABEL

- UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
- STRUCTURE TYPE CALLOUT
- ID NUMBER (WHERE APPLICABLE)

XX XX–XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

- LOCATION (WHERE APPLICABLE)
- STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

- UTILITY LENGTH
- UTILITY SIZE
- UTILITY TYPE
- SLOPE (WHERE APPLICABLE)

XXLF – XX" XX
S=X.XX%

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AR	AIR RELEASE ASSEMBLY	
BO	DEAD–END BLOWOFF ASSEMBLY	
DCVA	DOUBLE CHECK VALVE ASSEMBLY	
DDCV	DOUBLE DETECTOR CHECK VALVE	
FDC	FIRE DEPARTMENT CONNECTION	
FH	FIRE HYDRANT	
HB	HORIZONTAL BEND	
PIV	POST INDICATOR VALVE	
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY	
STUB	STUB	
TEE	TEE CONNECTION	
VB	VERTICAL BEND FITTING	
WM	WATER METER	

SHEET LEGEND

- W — WATER LINE
- FP — FIRE PROTECTION LINE
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- T — TELECOMMUNICATION LINE
- G — NATURAL GAS LINE
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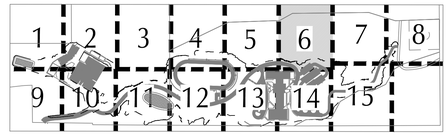
- PUBLIC UTILITY EASEMENT



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

WATER PLAN

C8.06

4/5/2018
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UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB UGB

MATCHLINE SEE SHEET C8.06

MATCHLINE SEE SHEET C8.08

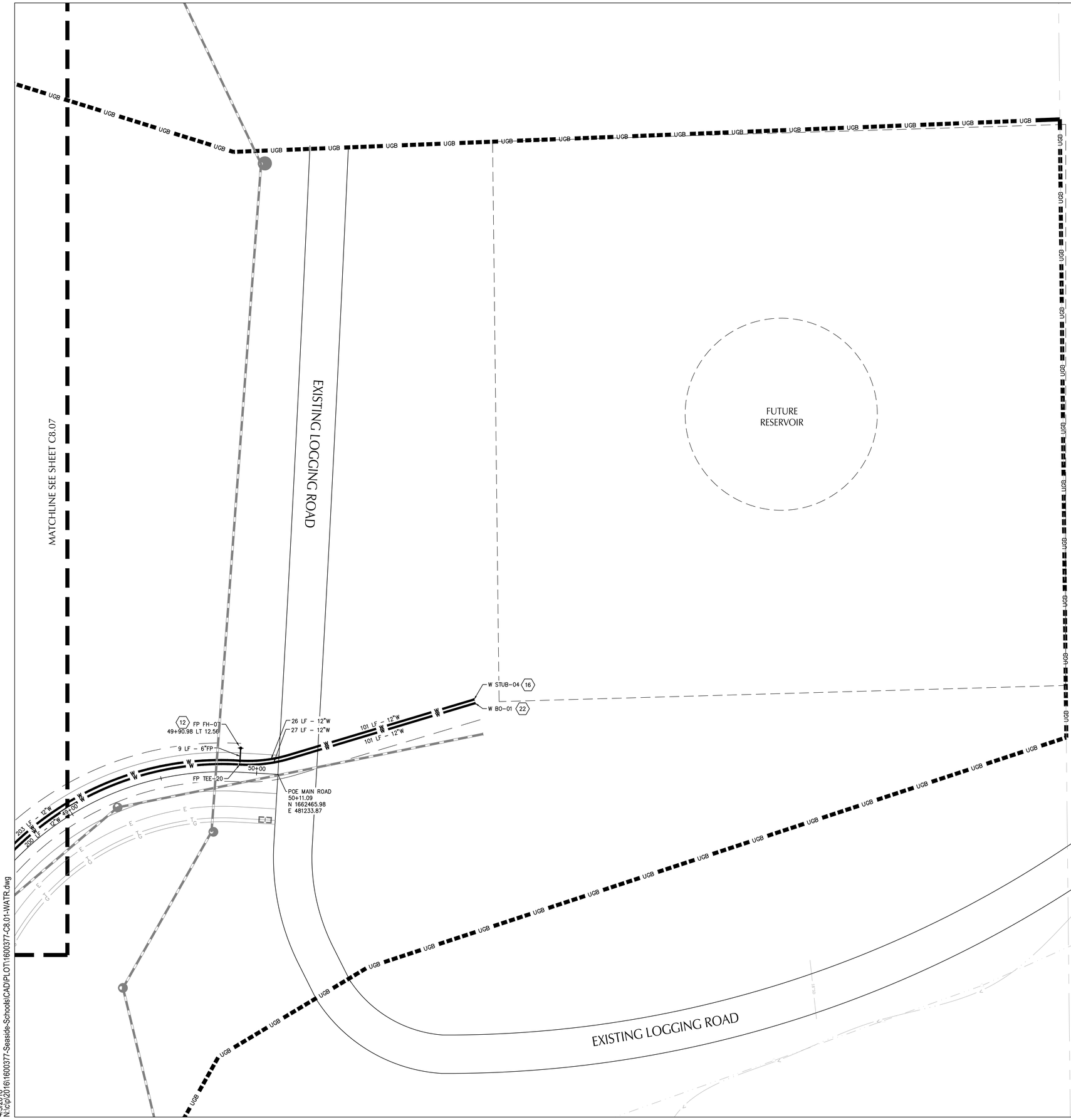
MATCHLINE SEE SHEET C8.15

W 203 LF – 12"W 45°/100'

W 208 LF – 12"W 45°/100'

W 45°/100'

E E E



SHEET NOTES

1. WATER MAIN PIPE BEDDING AND BACKFILL PER STANDARD DETAIL X/X
2. FUSED HDPE WATER MAINS SHALL BE FIELD FIT TO MATCH COVER SHOWN. COVER TO FINISH GRADE SHALL BE BETWEEN 30" AND 48" UNLESS NOTED OTHERWISE.
3. NO WATER MAIN HORIZONTAL OR VERTICAL BENDS SHALL EXCEED MINIMUM RADIUS FOR PIPE SIZE, MATERIAL, AND WALL THICKNESS AS INDICATED IN THE SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.
4. WATER MAIN VERTICAL SEPARATION AT UTILITY CROSSINGS IS AS SHOWN. 1–FT MINIMUM UNLESS NOTED OTHERWISE.
5. INSTALL CDF TRENCH DAMS AT APPROXIMATELY 300–FT INTERVAL PER DETAIL X/X.XX IN WATER MAIN TRENCHES FOR PIPES 10" AND LARGER.

(X) WATER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
10	INSTALL DOUBLE CHECK ASSEMBLY IN VAULT. SIZE TO MATCH METER.	
11	CONNECT DOMESTIC WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE. SIZE AS NOTED.	
12	INSTALL FIRE HYDRANT AND LINE. CONNECT TO NEW WATER MAIN WITH TEE AND GATE VALVE. INSTALL (2) BOLLARDS AT EACH HYDRANT.	
13	INSTALL 6" FIRE WATER SERVICE AND DOUBLE CHECK DETECTOR ASSEMBLY IN VAULT. SLOPE LINE TO MECHANICAL ROOM.	
14	CONNECT 6" FIRE WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE.	
15	CONNECT NEW 10" WATER MAIN TO EXISTING 10" WATER MAIN WITH TEE AND GATE VALVE.	
16	CAP AND SURVEY END OF WATER MAIN(S) FOR FUTURE USE.	
17	INSTALL 3" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	
18	CONNECT 3" IRRIGATION WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH 12"X12"X4" TEE AND 4"X3" REDUCER.	
19	INSTALL 6" FIRE DEPARTMENT CONNECTION. SLOPE LINE TO DRIP VALVE IN VAULT.	
20	INSTALL 10"X12"X12" TEE IN NEW WATER MAIN WITH GATE VALVE ON EACH LEG.	
21	INSTALL VALVING AND STUB OUTS TO BOOSTER STATION: A) 10" WATER MAIN EXTENSION FROM EX 10" MAIN IN SPRUCE DR. B) 12" DISTRIBUTION LINE FROM RESERVOIR. C) 12" DIRECT RESERVOIR FILL LINE.	
22	INSTALL DEAD END BLOWOFF ASSEMBLY AT WATER MAIN TERMINATION.	
23	INSTALL AIR RELEASE ASSEMBLY WITH CURB STOP AND NIPPLE IN BOX BEHIND CURB.	
24	INSTALL 4" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
FP	CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.	
IR	IRRIGATION POINT OF CONNECTION TO BACKFLOW PREVENTION. SEE IRRIGATION PLANS FOR CONTINUATION.	
W	CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	

UTILITY LABEL LEGEND

STRUCTURE LABEL

- UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
- STRUCTURE TYPE CALLOUT
- XX XX–XX — ID NUMBER (WHERE APPLICABLE)
- N=XXXX.XX, E=XXXX.XX — LOCATION (WHERE APPLICABLE)
- RIM=, IE IN = XX.X, IE OUT = XX.X — STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

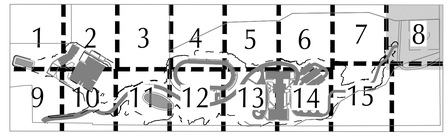
- UTILITY LENGTH
- UTILITY SIZE
- XXLF – XX" XX — UTILITY TYPE
- S=X.XX% — SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AR	AIR RELEASE ASSEMBLY	
BO	DEAD–END BLOWOFF ASSEMBLY	
DCVA	DOUBLE CHECK VALVE ASSEMBLY	
DDCV	DOUBLE DETECTOR CHECK VALVE	
FDC	FIRE DEPARTMENT CONNECTION	
FH	FIRE HYDRANT	
HB	HORIZONTAL BEND	
PIV	POST INDICATOR VALVE	
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY	
STUB	STUB	
TEE	TEE CONNECTION	
VB	VERTICAL BEND FITTING	
WM	WATER METER	

SHEET LEGEND

- W — WATER LINE
- FP — FIRE PROTECTION LINE
- STORM DRAIN LINE
- S — SANITARY SEWER LINE
- E — ELECTRICAL LINE
- T — TELECOMMUNICATION LINE
- G — NATURAL GAS LINE
- PROPERTY LINE
- PUBLIC UTILITY EASEMENT



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

BRIC ARCHITECTURE, INC.
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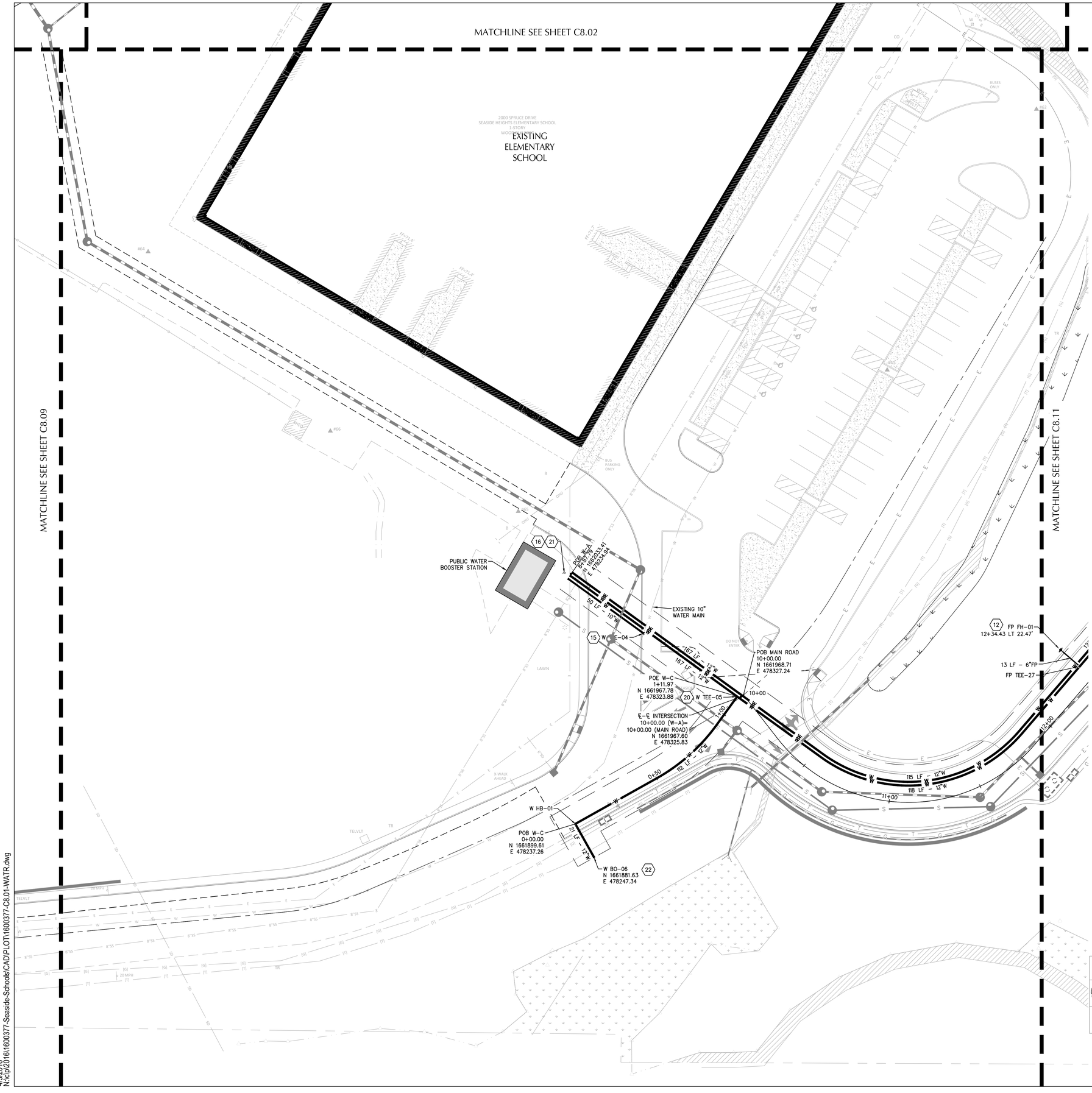
DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

WATER PLAN

C8.08

4/5/2018
N:\ic\cp\2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C8.01-WATR.dwg



SHEET NOTES

1. WATER MAIN PIPE BEDDING AND BACKFILL PER STANDARD DETAIL X/X
2. FUSED HDPE WATER MAINS SHALL BE FIELD FIT TO MATCH COVER SHOWN. COVER TO FINISH GRADE SHALL BE BETWEEN 30" AND 48" UNLESS NOTED OTHERWISE.
3. NO WATER MAIN HORIZONTAL OR VERTICAL BENDS SHALL EXCEED MINIMUM RADIUS FOR PIPE SIZE, MATERIAL, AND WALL THICKNESS AS INDICATED IN THE SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.
4. WATER MAIN VERTICAL SEPARATION AT UTILITY CROSSINGS IS AS SHOWN. 1-FT MINIMUM UNLESS NOTED OTHERWISE.
5. INSTALL CDF TRENCH DAMS AT APPROXIMATELY 300-FT INTERVAL PER DETAIL X/X.XX IN WATER MAIN TRENCHES FOR PIPES 10" AND LARGER.

(X) WATER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
10	INSTALL DOUBLE CHECK ASSEMBLY IN VAULT. SIZE TO MATCH METER.	
11	CONNECT DOMESTIC WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE. SIZE AS NOTED.	
12	INSTALL FIRE HYDRANT AND LINE. CONNECT TO NEW WATER MAIN WITH TEE AND GATE VALVE. INSTALL (2) BOLLARDS AT EACH HYDRANT.	
13	INSTALL 6" FIRE WATER SERVICE AND DOUBLE CHECK DETECTOR ASSEMBLY IN VAULT. SLOPE LINE TO MECHANICAL ROOM.	
14	CONNECT 6" FIRE WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE.	
15	CONNECT NEW 10" WATER MAIN TO EXISTING 10" WATER MAIN WITH TEE AND GATE VALVE.	
16	CAP AND SURVEY END OF WATER MAIN(S) FOR FUTURE USE.	
17	INSTALL 3" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	
18	CONNECT 3" IRRIGATION WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH 12"X12"X4" TEE AND 4"X3" REDUCER.	
19	INSTALL 6" FIRE DEPARTMENT CONNECTION. SLOPE LINE TO DRIP VALVE IN VAULT.	
20	INSTALL 10"X12"X12" TEE IN NEW WATER MAIN WITH GATE VALVE ON EACH LEG.	
21	INSTALL VALVING AND STUB OUTS TO BOOSTER STATION: A) 10" WATER MAIN EXTENSION FROM EX 10" MAIN IN SPRUCE DR. B) 12" DISTRIBUTION LINE FROM RESERVOIR. C) 12" DIRECT RESERVOIR FILL LINE.	
22	INSTALL DEAD END BLOWOFF ASSEMBLY AT WATER MAIN TERMINATION.	
23	INSTALL AIR RELEASE ASSEMBLY WITH CURB STOP AND NIPPLE IN BOX BEHIND CURB.	
24	INSTALL 4" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
FP	CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.	
IR	IRRIGATION POINT OF CONNECTION TO BACKFLOW PREVENTION. SEE IRRIGATION PLANS FOR CONTINUATION.	
W	CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	

UTILITY LABEL LEGEND

STRUCTURE LABEL

- UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
- STRUCTURE TYPE CALLOUT
- ID NUMBER (WHERE APPLICABLE)
- LOCATION (WHERE APPLICABLE)
- STRUCTURE INFO (WHERE APPLICABLE)

XX XX-XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

PIPE LABEL

- UTILITY LENGTH
- UTILITY SIZE
- UTILITY TYPE
- SLOPE (WHERE APPLICABLE)

XXLF - XX" XX
S=X.XX%

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AR	AIR RELEASE ASSEMBLY	
BO	DEAD-END BLOWOFF ASSEMBLY	
DCVA	DOUBLE CHECK VALVE ASSEMBLY	
DDCV	DOUBLE DETECTOR CHECK VALVE	
FDC	FIRE DEPARTMENT CONNECTION	
FH	FIRE HYDRANT	
HB	HORIZONTAL BEND	
PIV	POST INDICATOR VALVE	
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY	
STUB	STUB	
TEE	TEE CONNECTION	
VB	VERTICAL BEND FITTING	
WM	WATER METER	

SHEET LEGEND

- W — WATER LINE
- FP — FIRE PROTECTION LINE
- STORM DRAIN LINE
- S — SANITARY SEWER LINE
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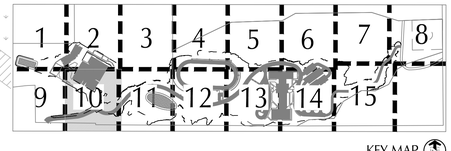

KEY MAP

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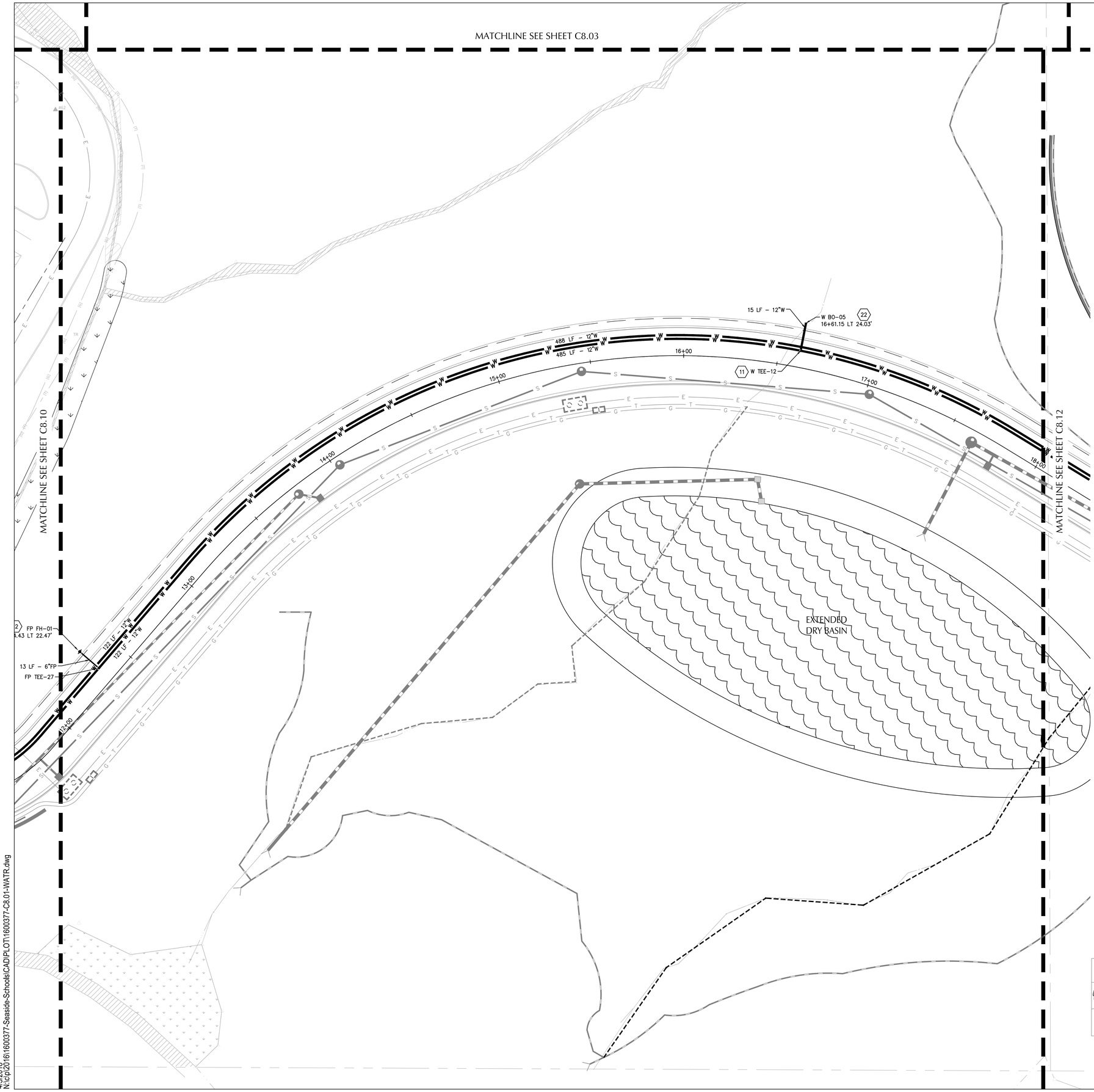
phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

WATER PLAN

C8.10

4/5/2018
N:\cip\2016\16600377-Seaside-Schools\CAD\PLOT\16600377-C8.01-WATR.dwg



SHEET NOTES

1. WATER MAIN PIPE BEDDING AND BACKFILL PER STANDARD DETAIL X/X
2. FUSED HDPE WATER MAINS SHALL BE FIELD FIT TO MATCH COVER SHOWN. COVER TO FINISH GRADE SHALL BE BETWEEN 30" AND 48" UNLESS NOTED OTHERWISE.
3. NO WATER MAIN HORIZONTAL OR VERTICAL BENDS SHALL EXCEED MINIMUM RADIUS FOR PIPE SIZE, MATERIAL, AND WALL THICKNESS AS INDICATED IN THE SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.
4. WATER MAIN VERTICAL SEPARATION AT UTILITY CROSSINGS IS AS SHOWN. 1–FT MINIMUM UNLESS NOTED OTHERWISE.
5. INSTALL CDF TRENCH DAMS AT APPROXIMATELY 300–FT INTERVAL PER DETAIL X/X.XX IN WATER MAIN TRENCHES FOR PIPES 10" AND LARGER.

(X) WATER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
10	INSTALL DOUBLE CHECK ASSEMBLY IN VAULT. SIZE TO MATCH METER.	
11	CONNECT DOMESTIC WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE. SIZE AS NOTED.	
12	INSTALL FIRE HYDRANT AND LINE. CONNECT TO NEW WATER MAIN WITH TEE AND GATE VALVE. INSTALL (2) BOLLARDS AT EACH HYDRANT.	
13	INSTALL 6" FIRE WATER SERVICE AND DOUBLE CHECK DETECTOR ASSEMBLY IN VAULT. SLOPE LINE TO MECHANICAL ROOM.	
14	CONNECT 6" FIRE WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE.	
15	CONNECT NEW 10" WATER MAIN TO EXISTING 10" WATER MAIN WITH TEE AND GATE VALVE.	
16	CAP AND SURVEY END OF WATER MAIN(S) FOR FUTURE USE.	
17	INSTALL 3" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	
18	CONNECT 3" IRRIGATION WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH 12"X12"X4" TEE AND 4"X3" REDUCER.	
19	INSTALL 6" FIRE DEPARTMENT CONNECTION. SLOPE LINE TO DRIP VALVE IN VAULT.	
20	INSTALL 10"X12"X12" TEE IN NEW WATER MAIN WITH GATE VALVE ON EACH LEG.	
21	INSTALL VALVING AND STUB OUTS TO BOOSTER STATION: A) 10" WATER MAIN EXTENSION FROM EX 10" MAIN IN SPRUCE DR. B) 12" DISTRIBUTION LINE FROM RESERVOIR. C) 12" DIRECT RESERVOIR FILL LINE.	
22	INSTALL DEAD END BLOWOFF ASSEMBLY AT WATER MAIN TERMINATION.	
23	INSTALL AIR RELEASE ASSEMBLY WITH CURB STOP AND NIPPLE IN BOX BEHIND CURB.	
24	INSTALL 4" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
FP	CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.	
IR	IRRIGATION POINT OF CONNECTION TO BACKFLOW PREVENTION. SEE IRRIGATION PLANS FOR CONTINUATION.	
W	CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	

UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
STRUCTURE TYPE CALLOUT
XX XX–XX — ID NUMBER (WHERE APPLICABLE)
N=XXXX.XX
E=XXXX.XX — LOCATION (WHERE APPLICABLE)
RIM=
IE IN = XX.X
IE OUT = XX.X — STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

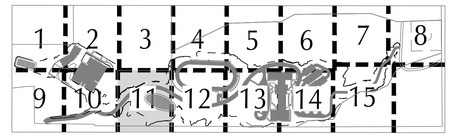
UTILITY LENGTH
UTILITY SIZE
XXLF – XX" XX — UTILITY TYPE
S=X.XX% — SLOPE (WHERE APPLICABLE)

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AR	AIR RELEASE ASSEMBLY	
BO	DEAD–END BLOWOFF ASSEMBLY	
DCVA	DOUBLE CHECK VALVE ASSEMBLY	
DDCV	DOUBLE DETECTOR CHECK VALVE	
FDC	FIRE DEPARTMENT CONNECTION	
FH	FIRE HYDRANT	
HB	HORIZONTAL BEND	
PIV	POST INDICATOR VALVE	
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY	
STUB	STUB	
TEE	TEE CONNECTION	
VB	VERTICAL BEND FITTING	
WM	WATER METER	

SHEET LEGEND

- W — WATER LINE
- FP — FIRE PROTECTION LINE
- SD — STORM DRAIN LINE
- S — SANITARY SEWER LINE
- E — ELECTRICAL LINE
- T — TELECOMMUNICATION LINE
- G — NATURAL GAS LINE
- PROPERTY LINE
- PUBLIC UTILITY EASEMENT



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

WATER PLAN

C8.11

4/5/2018
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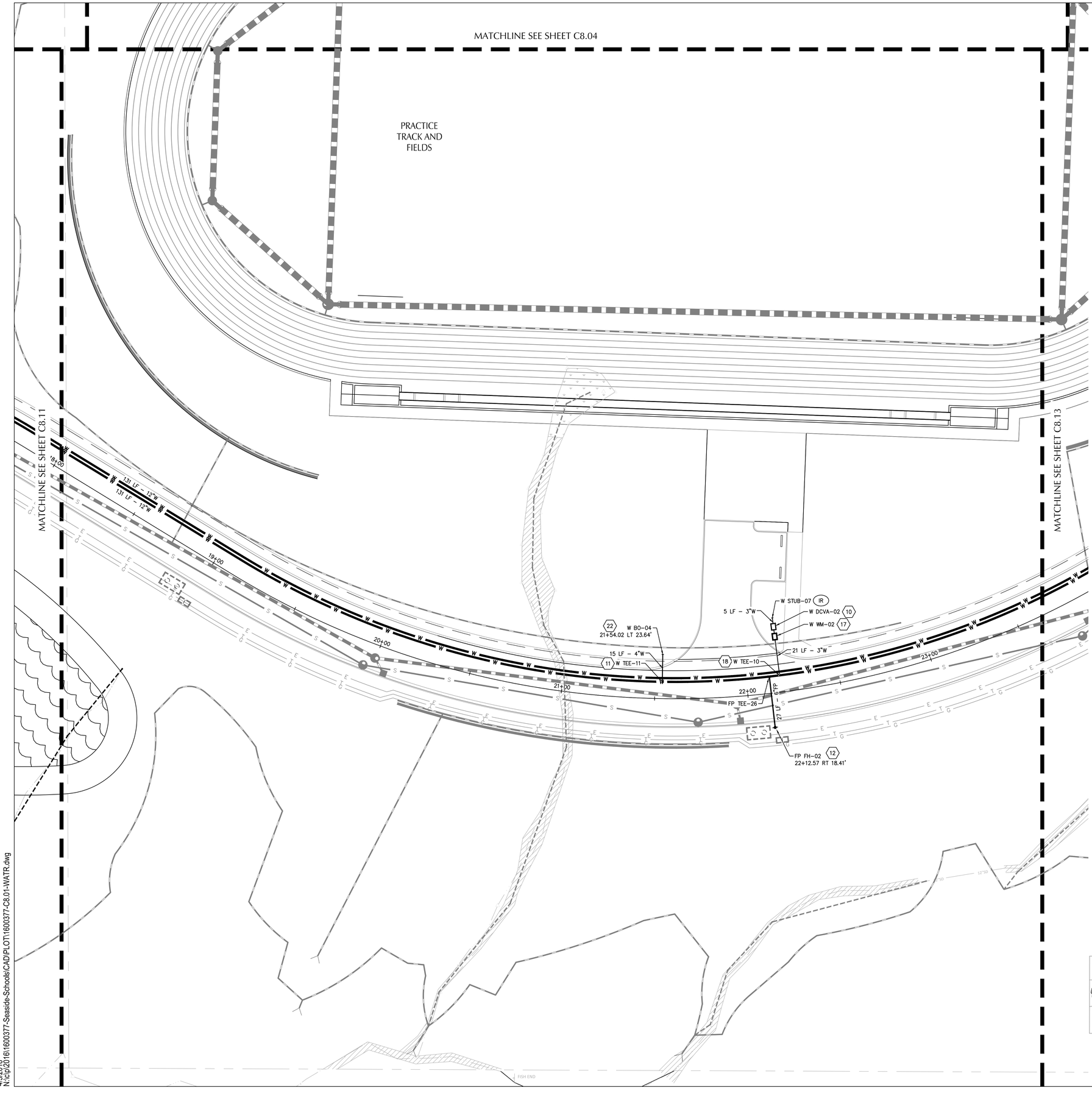

SHEET NOTES

1. WATER MAIN PIPE BEDDING AND BACKFILL PER STANDARD DETAIL X/X
2. FUSED HDPE WATER MAINS SHALL BE FIELD FIT TO MATCH COVER SHOWN. COVER TO FINISH GRADE SHALL BE BETWEEN 30" AND 48" UNLESS NOTED OTHERWISE.
3. NO WATER MAIN HORIZONTAL OR VERTICAL BENDS SHALL EXCEED MINIMUM RADIUS FOR PIPE SIZE, MATERIAL, AND WALL THICKNESS AS INDICATED IN THE SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.
4. WATER MAIN VERTICAL SEPARATION AT UTILITY CROSSINGS IS AS SHOWN. 1-FT MINIMUM UNLESS NOTED OTHERWISE.
5. INSTALL CDF TRENCH DAMS AT APPROXIMATELY 300-FT INTERVAL PER DETAIL X/X.XX IN WATER MAIN TRENCHES FOR PIPES 10" AND LARGER.

(X) WATER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
10	INSTALL DOUBLE CHECK ASSEMBLY IN VAULT. SIZE TO MATCH METER.	
11	CONNECT DOMESTIC WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE. SIZE AS NOTED.	
12	INSTALL FIRE HYDRANT AND LINE. CONNECT TO NEW WATER MAIN WITH TEE AND GATE VALVE. INSTALL (2) BOLLARDS AT EACH HYDRANT.	
13	INSTALL 6" FIRE WATER SERVICE AND DOUBLE CHECK DETECTOR ASSEMBLY IN VAULT. SLOPE LINE TO MECHANICAL ROOM.	
14	CONNECT 6" FIRE WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE.	
15	CONNECT NEW 10" WATER MAIN TO EXISTING 10" WATER MAIN WITH TEE AND GATE VALVE.	
16	CAP AND SURVEY END OF WATER MAIN(S) FOR FUTURE USE.	
17	INSTALL 3" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	
18	CONNECT 3" IRRIGATION WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH 12"X12"X4" TEE AND 4"X3" REDUCER.	
19	INSTALL 6" FIRE DEPARTMENT CONNECTION. SLOPE LINE TO DRIP VALVE IN VAULT.	
20	INSTALL 10"X12"X12" TEE IN NEW WATER MAIN WITH GATE VALVE ON EACH LEG.	
21	INSTALL VALVING AND STUB OUTS TO BOOSTER STATION: A) 10" WATER MAIN EXTENSION FROM EX 10" MAIN IN SPRUCE DR. B) 12" DISTRIBUTION LINE FROM RESERVOIR. C) 12" DIRECT RESERVOIR FILL LINE.	
22	INSTALL DEAD END BLOWOFF ASSEMBLY AT WATER MAIN TERMINATION.	
23	INSTALL AIR RELEASE ASSEMBLY WITH CURB STOP AND NIPPLE IN BOX BEHIND CURB.	
24	INSTALL 4" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
FP	CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.	
IR	IRRIGATION POINT OF CONNECTION TO BACKFLOW PREVENTION. SEE IRRIGATION PLANS FOR CONTINUATION.	
W	CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	

UTILITY LABEL LEGEND

STRUCTURE LABEL

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N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

PIPE LABEL

- UTILITY LENGTH
- UTILITY SIZE
- UTILITY TYPE
- SLOPE (WHERE APPLICABLE)

XXLF - XX" XX
S=X.XX%

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AR	AIR RELEASE ASSEMBLY	
BO	DEAD-END BLOWOFF ASSEMBLY	
DCVA	DOUBLE CHECK VALVE ASSEMBLY	
DDCV	DOUBLE DETECTOR CHECK VALVE	
FDC	FIRE DEPARTMENT CONNECTION	
FH	FIRE HYDRANT	
HB	HORIZONTAL BEND	
PIV	POST INDICATOR VALVE	
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY	
STUB	STUB	
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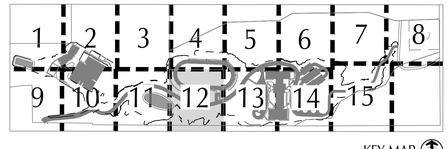

KEY MAP

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

WATER PLAN

C8.12

4/5/2018
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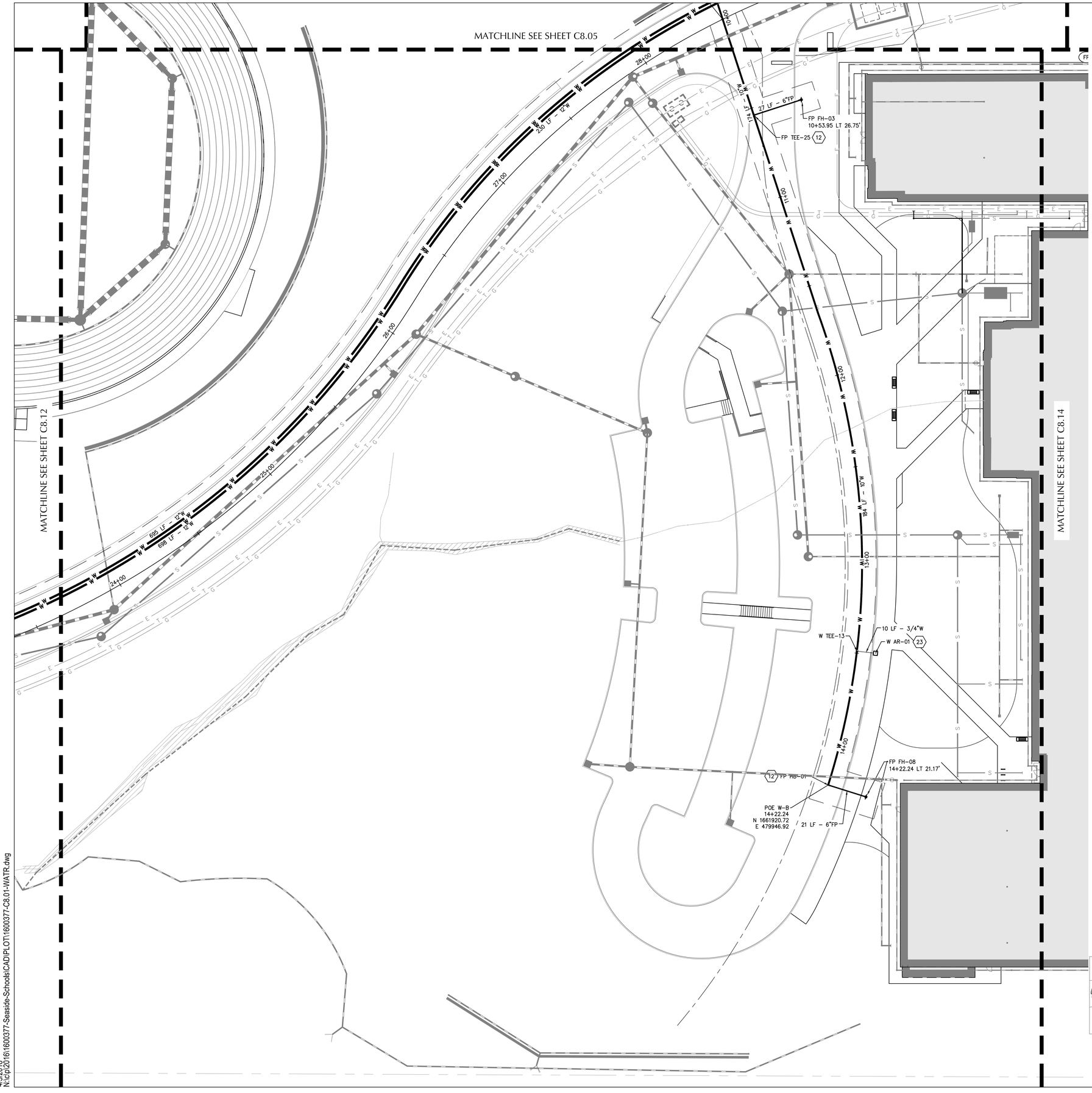

SHEET NOTES

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(X) WATER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
10	INSTALL DOUBLE CHECK ASSEMBLY IN VAULT. SIZE TO MATCH METER.	
11	CONNECT DOMESTIC WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE. SIZE AS NOTED.	
12	INSTALL FIRE HYDRANT AND LINE. CONNECT TO NEW WATER MAIN WITH TEE AND GATE VALVE. INSTALL (2) BOLLARDS AT EACH HYDRANT.	
13	INSTALL 6" FIRE WATER SERVICE AND DOUBLE CHECK DETECTOR ASSEMBLY IN VAULT. SLOPE LINE TO MECHANICAL ROOM.	
14	CONNECT 6" FIRE WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE.	
15	CONNECT NEW 10" WATER MAIN TO EXISTING 10" WATER MAIN WITH TEE AND GATE VALVE.	
16	CAP AND SURVEY END OF WATER MAIN(S) FOR FUTURE USE.	
17	INSTALL 3" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	
18	CONNECT 3" IRRIGATION WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH 12"X12"X4" TEE AND 4"X3" REDUCER.	
19	INSTALL 6" FIRE DEPARTMENT CONNECTION. SLOPE LINE TO DRIP VALVE IN VAULT.	
20	INSTALL 10"X12"X12" TEE IN NEW WATER MAIN WITH GATE VALVE ON EACH LEG.	
21	INSTALL VALVING AND STUB OUTS TO BOOSTER STATION: A) 10" WATER MAIN EXTENSION FROM EX 10" MAIN IN SPRUCE DR. B) 12" DISTRIBUTION LINE FROM RESERVOIR. C) 12" DIRECT RESERVOIR FILL LINE.	
22	INSTALL DEAD END BLOWOFF ASSEMBLY AT WATER MAIN TERMINATION.	
23	INSTALL AIR RELEASE ASSEMBLY WITH CURB STOP AND NIPPLE IN BOX BEHIND CURB.	
24	INSTALL 4" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
FP	CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.	
IR	IRRIGATION POINT OF CONNECTION TO BACKFLOW PREVENTION. SEE IRRIGATION PLANS FOR CONTINUATION.	
W	CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	

UTILITY LABEL LEGEND

STRUCTURE LABEL

- UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
- STRUCTURE TYPE CALLOUT
- ID NUMBER (WHERE APPLICABLE)
- LOCATION (WHERE APPLICABLE)
- STRUCTURE INFO (WHERE APPLICABLE)

XX XX–XX
N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

PIPE LABEL

- UTILITY LENGTH
- UTILITY SIZE
- UTILITY TYPE
- SLOPE (WHERE APPLICABLE)

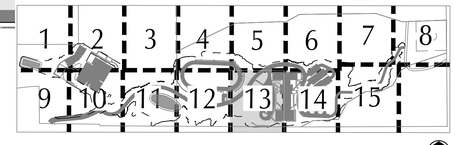
XXLF – XX" XX
S=X.XX%

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AR	AIR RELEASE ASSEMBLY	
BO	DEAD–END BLOWOFF ASSEMBLY	
DCVA	DOUBLE CHECK VALVE ASSEMBLY	
DDCV	DOUBLE DETECTOR CHECK VALVE	
FDC	FIRE DEPARTMENT CONNECTION	
FH	FIRE HYDRANT	
HB	HORIZONTAL BEND	
PIV	POST INDICATOR VALVE	
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY	
STUB	STUB	
TEE	TEE CONNECTION	
VB	VERTICAL BEND FITTING	
WM	WATER METER	

SHEET LEGEND

- W — WATER LINE
- FP — FIRE PROTECTION LINE
- STORM DRAIN LINE
- S — SANITARY SEWER LINE
- E — ELECTRICAL LINE
- T — TELECOMMUNICATION LINE
- G — NATURAL GAS LINE
- PROPERTY LINE
- PUBLIC UTILITY EASEMENT



KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

BRIC ARCHITECTURE, INC.
1233 NW NORTHRUP STREET, SUITE 100
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New Middle School / High School
Seaside School District
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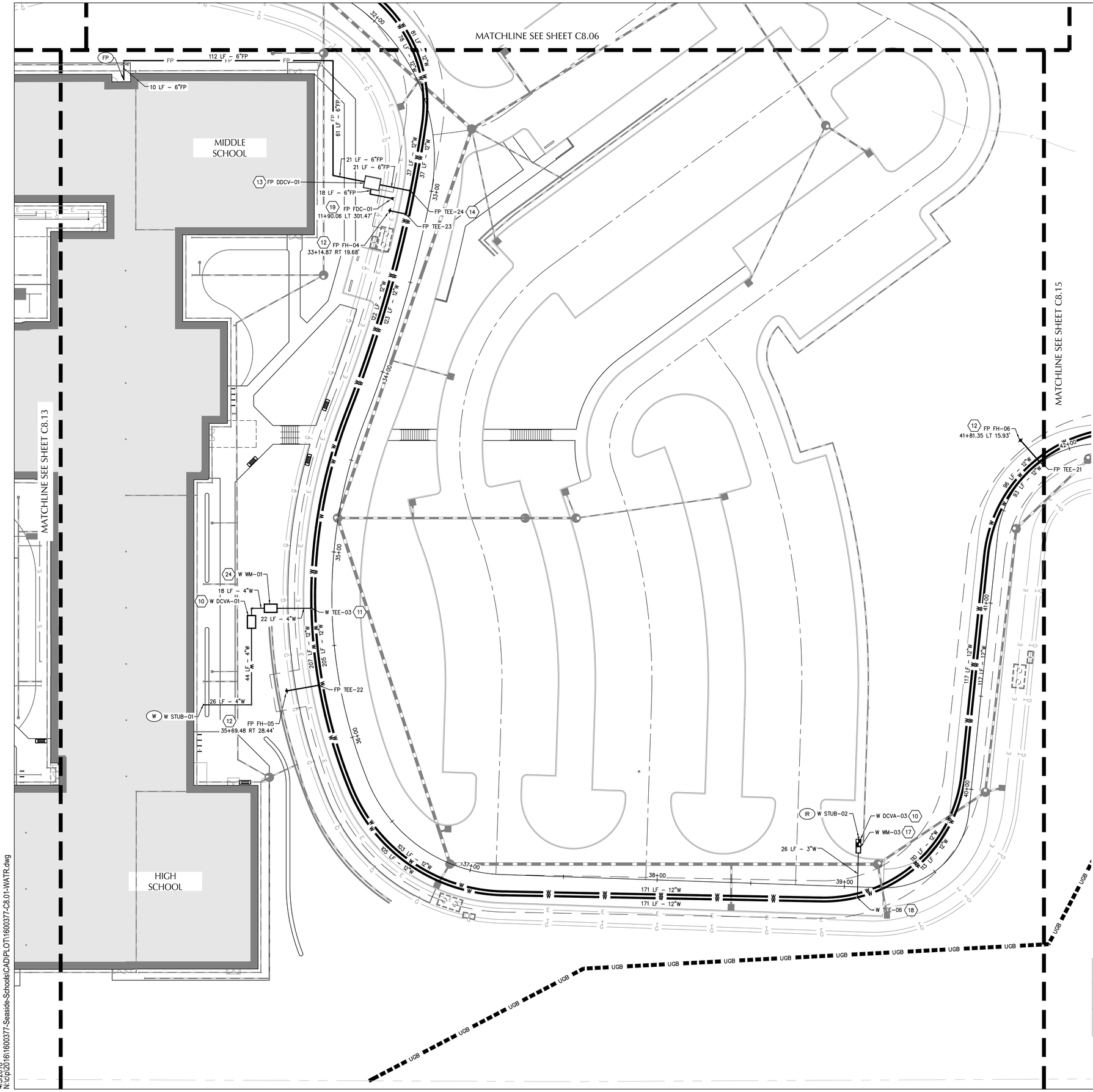
DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

WATER PLAN

C8.13

4/5/2018
N:\cip\2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C8.01-WATR.dwg



SHEET NOTES

1. WATER MAIN PIPE BEDDING AND BACKFILL PER STANDARD DETAIL X/X
2. FUSED HDPE WATER MAINS SHALL BE FIELD FIT TO MATCH COVER SHOWN. COVER TO FINISH GRADE SHALL BE BETWEEN 30" AND 48" UNLESS NOTED OTHERWISE.
3. NO WATER MAIN HORIZONTAL OR VERTICAL BENDS SHALL EXCEED MINIMUM RADIUS FOR PIPE SIZE, MATERIAL, AND WALL THICKNESS AS INDICATED IN THE SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.
4. WATER MAIN VERTICAL SEPARATION AT UTILITY CROSSINGS IS AS SHOWN. 1-FT MINIMUM UNLESS NOTED OTHERWISE.
5. INSTALL CDF TRENCH DAMS AT APPROXIMATELY 300-FT INTERVAL PER DETAIL X/X.XX IN WATER MAIN TRENCHES FOR PIPES 10" AND LARGER.

(X) WATER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
10	INSTALL DOUBLE CHECK ASSEMBLY IN VAULT. SIZE TO MATCH METER.	
11	CONNECT DOMESTIC WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE. SIZE AS NOTED.	
12	INSTALL FIRE HYDRANT AND LINE. CONNECT TO NEW WATER MAIN WITH TEE AND GATE VALVE. INSTALL (2) BOLLARDS AT EACH HYDRANT.	
13	INSTALL 6" FIRE WATER SERVICE AND DOUBLE CHECK DETECTOR ASSEMBLY IN VAULT. SLOPE LINE TO MECHANICAL ROOM.	
14	CONNECT 6" FIRE WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE.	
15	CONNECT NEW 10" WATER MAIN TO EXISTING 10" WATER MAIN WITH TEE AND GATE VALVE.	
16	CAP AND SURVEY END OF WATER MAIN(S) FOR FUTURE USE.	
17	INSTALL 3" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	
18	CONNECT 3" IRRIGATION WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH 12"X12"X4" TEE AND 4"X3" REDUCER.	
19	INSTALL 6" FIRE DEPARTMENT CONNECTION. SLOPE LINE TO DRIP VALVE IN VAULT.	
20	INSTALL 10"X12"X12" TEE IN NEW WATER MAIN WITH GATE VALVE ON EACH LEG.	
21	INSTALL VALVING AND STUB OUTS TO BOOSTER STATION: A) 10" WATER MAIN EXTENSION FROM EX 10" MAIN IN SPRUCE DR. B) 12" DISTRIBUTION LINE FROM RESERVOIR. C) 12" DIRECT RESERVOIR FILL LINE.	
22	INSTALL DEAD END BLOWOFF ASSEMBLY AT WATER MAIN TERMINATION.	
23	INSTALL AIR RELEASE ASSEMBLY WITH CURB STOP AND NIPPLE IN BOX BEHIND CURB.	
24	INSTALL 4" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
FP	CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.	
IR	IRRIGATION POINT OF CONNECTION TO BACKFLOW PREVENTION. SEE IRRIGATION PLANS FOR CONTINUATION.	
W	CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	

UTILITY LABEL LEGEND

STRUCTURE LABEL

- UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
- STRUCTURE TYPE CALLOUT
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RIM=
IE IN = XX.X
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- LOCATION (WHERE APPLICABLE)
- STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

- UTILITY LENGTH
- UTILITY SIZE
- UTILITY TYPE
- SLOPE (WHERE APPLICABLE)

XXLF – XX" XX
S=X.XX%

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AR	AIR RELEASE ASSEMBLY	
BO	DEAD-END BLOWOFF ASSEMBLY	
DCVA	DOUBLE CHECK VALVE ASSEMBLY	
DDCV	DOUBLE DETECTOR CHECK VALVE	
FDC	FIRE DEPARTMENT CONNECTION	
FH	FIRE HYDRANT	
HB	HORIZONTAL BEND	
PIV	POST INDICATOR VALVE	
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY	
STUB	STUB	
TEE	TEE CONNECTION	
VB	VERTICAL BEND FITTING	
WM	WATER METER	

SHEET LEGEND

- WATER LINE
- FIRE PROTECTION LINE
- STORM DRAIN LINE
- SANITARY SEWER LINE
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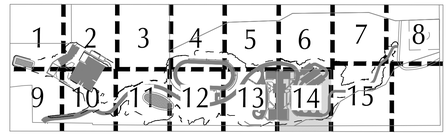
- TELECOMMUNICATION LINE
- NATURAL GAS LINE
- PROPERTY LINE
- PUBLIC UTILITY EASEMENT



KEY MAP

SCALE 1 INCH = 20 FEET
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phase	Bid Package 1
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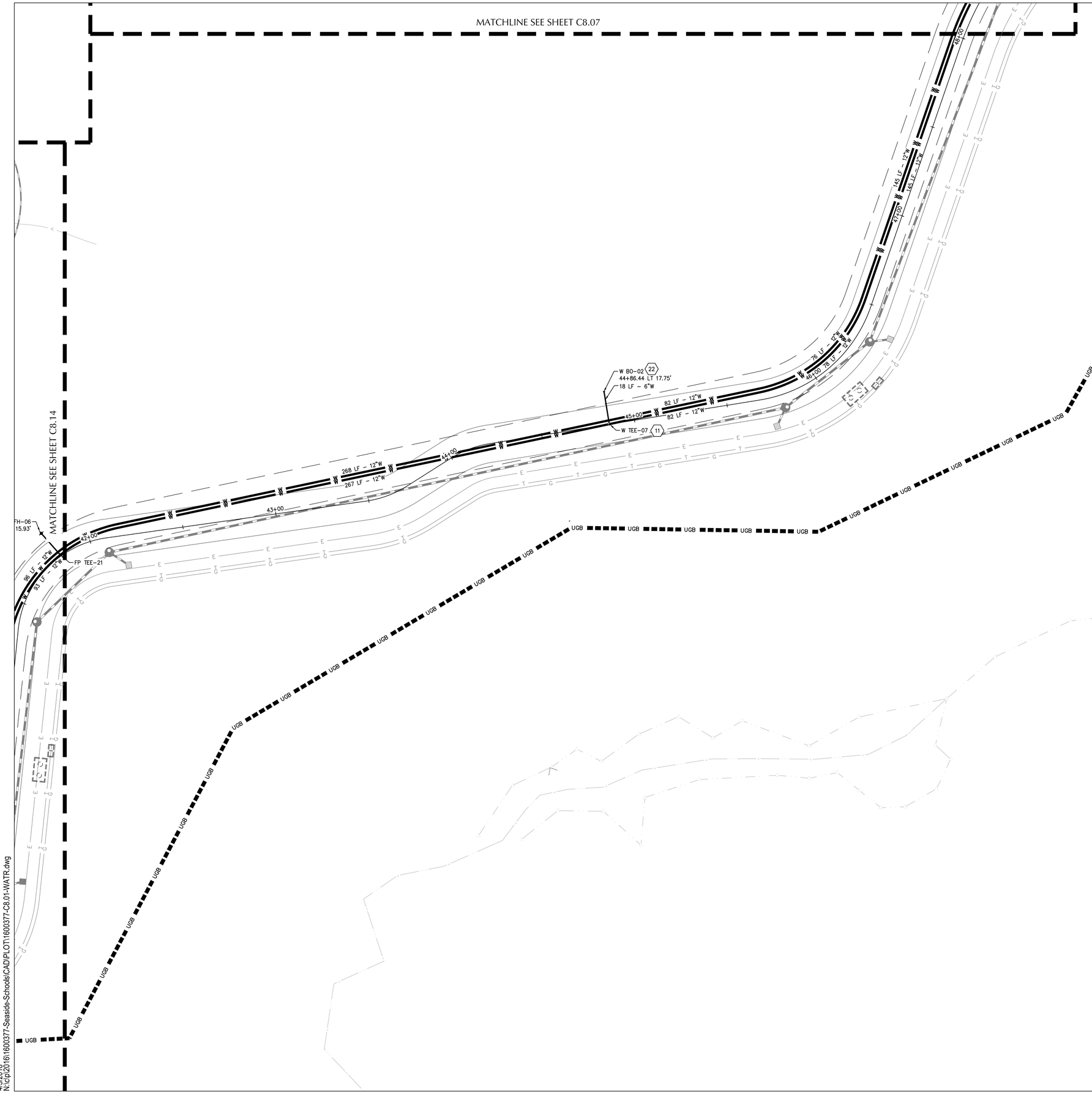
revisions	
project #	17007

WATER PLAN

C8.14

4/5/2018
N:\cip\2016\16003377-Seaside-Schools\CAD\PLOT\16003377-C8.01-WATR.dwg



SHEET NOTES

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(X) WATER KEY NOTES

NOTE	DESCRIPTION	DETAIL REF.
10	INSTALL DOUBLE CHECK ASSEMBLY IN VAULT. SIZE TO MATCH METER.	
11	CONNECT DOMESTIC WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE. SIZE AS NOTED.	
12	INSTALL FIRE HYDRANT AND LINE. CONNECT TO NEW WATER MAIN WITH TEE AND GATE VALVE. INSTALL (2) BOLLARDS AT EACH HYDRANT.	
13	INSTALL 6" FIRE WATER SERVICE AND DOUBLE CHECK DETECTOR ASSEMBLY IN VAULT. SLOPE LINE TO MECHANICAL ROOM.	
14	CONNECT 6" FIRE WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH TEE AND GATE VALVE.	
15	CONNECT NEW 10" WATER MAIN TO EXISTING 10" WATER MAIN WITH TEE AND GATE VALVE.	
16	CAP AND SURVEY END OF WATER MAIN(S) FOR FUTURE USE.	
17	INSTALL 3" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	
18	CONNECT 3" IRRIGATION WATER SERVICE TO NEW 12" HDPE WATER MAIN WITH 12"X12"X4" TEE AND 4"X3" REDUCER.	
19	INSTALL 6" FIRE DEPARTMENT CONNECTION. SLOPE LINE TO DRIP VALVE IN VAULT.	
20	INSTALL 10"X12"X12" TEE IN NEW WATER MAIN WITH GATE VALVE ON EACH LEG.	
21	INSTALL VALVING AND STUB OUTS TO BOOSTER STATION: A) 10" WATER MAIN EXTENSION FROM EX 10" MAIN IN SPRUCE DR. B) 12" DISTRIBUTION LINE FROM RESERVOIR. C) 12" DIRECT RESERVOIR FILL LINE.	
22	INSTALL DEAD END BLOWOFF ASSEMBLY AT WATER MAIN TERMINATION.	
23	INSTALL AIR RELEASE ASSEMBLY WITH CURB STOP AND NIPPLE IN BOX BEHIND CURB.	
24	INSTALL 4" NEPTUNE COMPOUND WATER METER IN VAULT WITH 2" BYPASS.	

(X) BLDG POINTS OF CONNECTION

NOTE	DESCRIPTION	DETAIL REF.
FP	CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.	
IR	IRRIGATION POINT OF CONNECTION TO BACKFLOW PREVENTION. SEE IRRIGATION PLANS FOR CONTINUATION.	
W	CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.	

UTILITY LABEL LEGEND

STRUCTURE LABEL

- UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)
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N=XXXX.XX
E=XXXX.XX
RIM=
IE IN = XX.X
IE OUT = XX.X

- LOCATION (WHERE APPLICABLE)
- STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

- UTILITY LENGTH
- UTILITY SIZE
- UTILITY TYPE
- SLOPE (WHERE APPLICABLE)

XXLF - XX" XX
S=X.XX%

STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AR	AIR RELEASE ASSEMBLY	
BO	DEAD-END BLOWOFF ASSEMBLY	
DCVA	DOUBLE CHECK VALVE ASSEMBLY	
DDCV	DOUBLE DETECTOR CHECK VALVE	
FDC	FIRE DEPARTMENT CONNECTION	
FH	FIRE HYDRANT	
HB	HORIZONTAL BEND	
PIV	POST INDICATOR VALVE	
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY	
STUB	STUB	
TEE	TEE CONNECTION	
VB	VERTICAL BEND FITTING	
WM	WATER METER	

SHEET LEGEND

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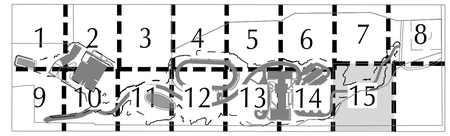

KEY MAP

SCALE 1 INCH = 20 FEET
20 0 20 40

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

WATER PLAN

C8.15

4/5/2018
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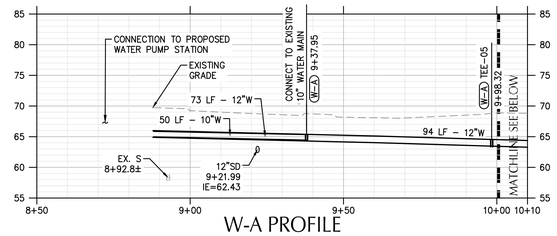
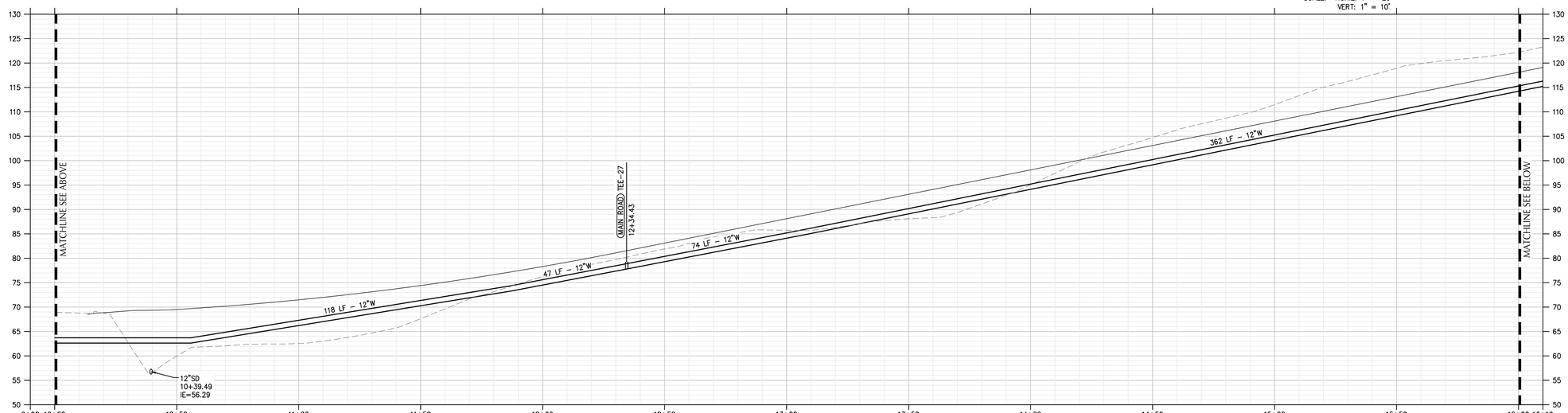


W-A PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



MAIN ROAD PROFILE

SCALE: HORIZ: 1" = 20'
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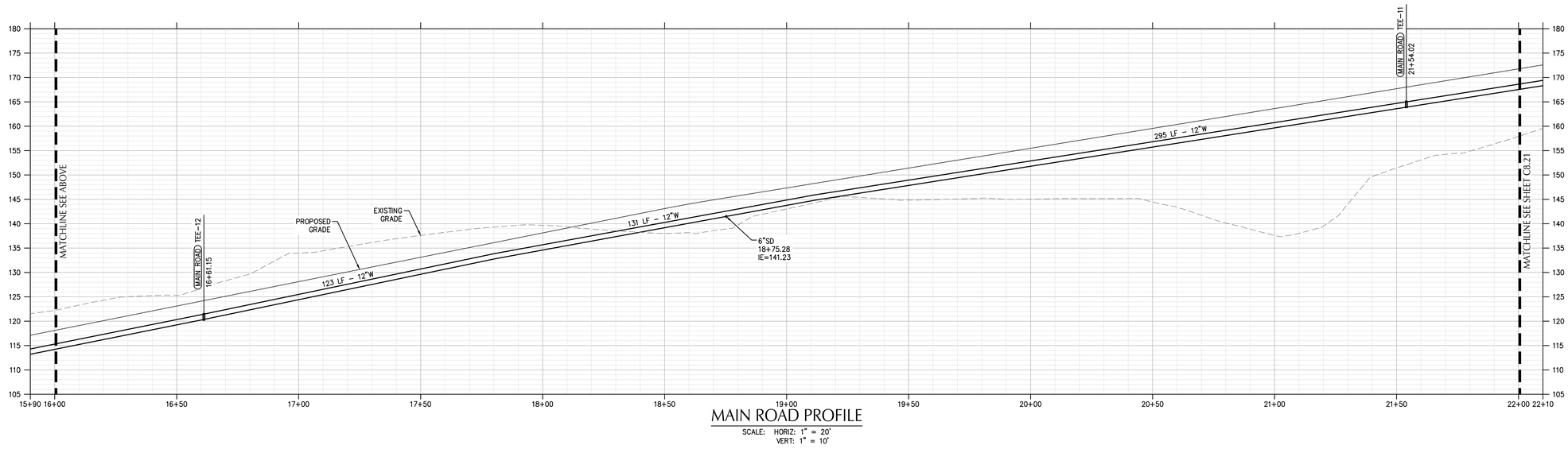

MAIN ROAD PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



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WATER PROFILES

C8.20

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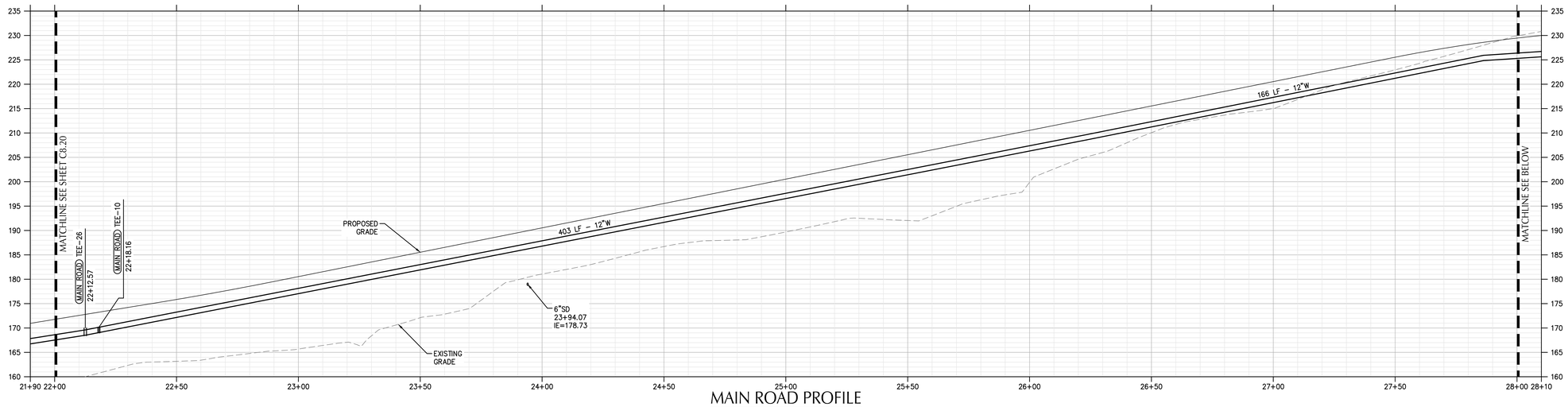

MAIN ROAD PROFILE

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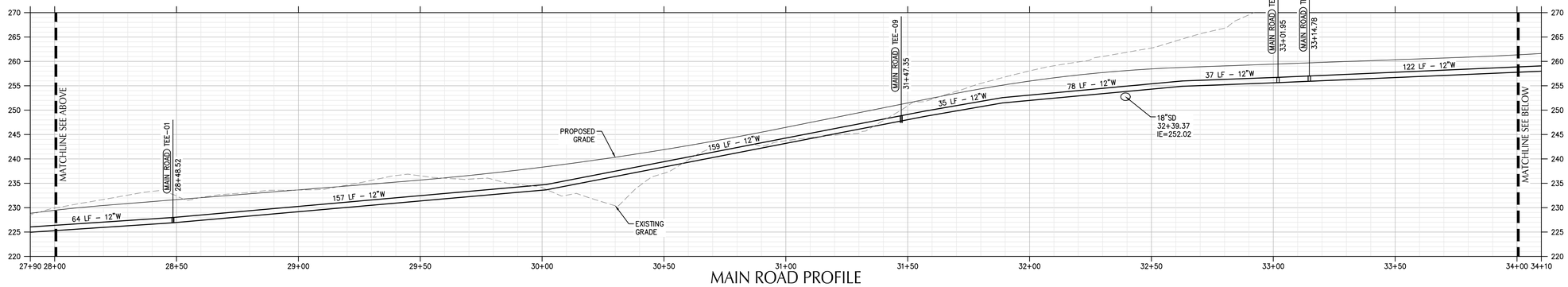

MAIN ROAD PROFILE

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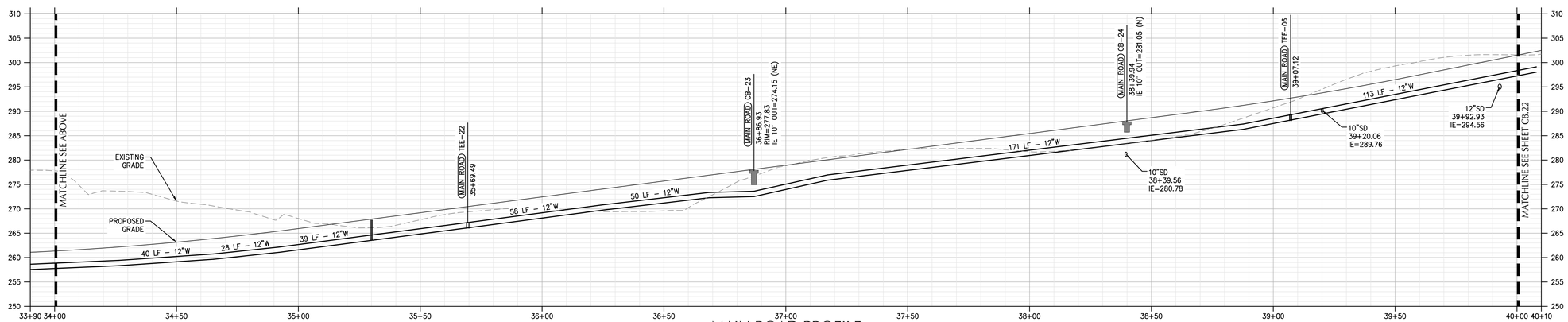

MAIN ROAD PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'

SCALE 1 INCH = 20 FEET
20 0 20 40

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revisions	
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WATER PROFILES

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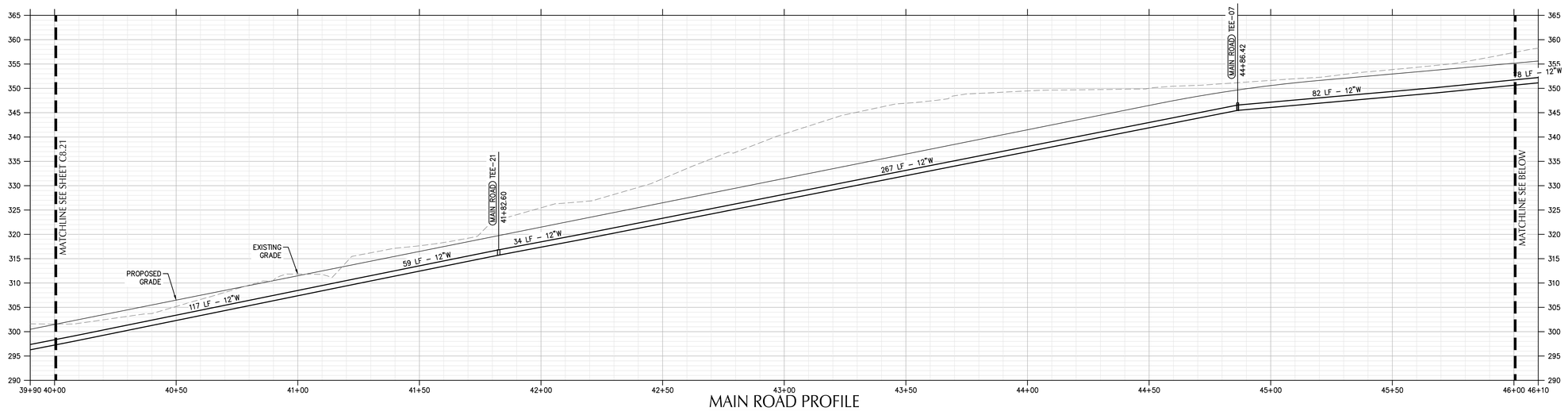
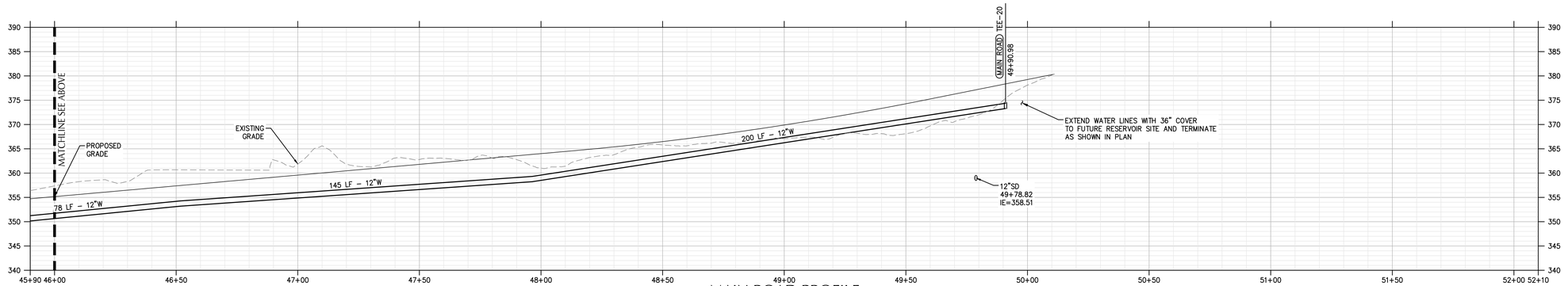


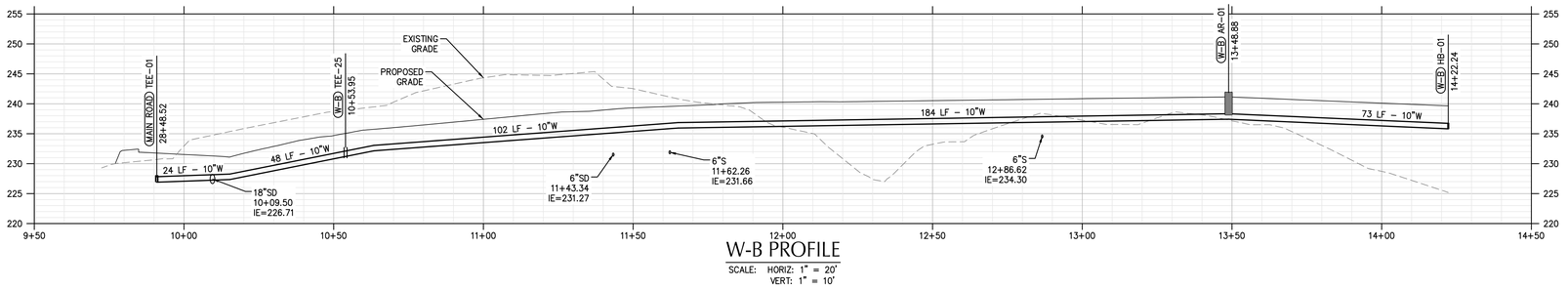
MAIN ROAD PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



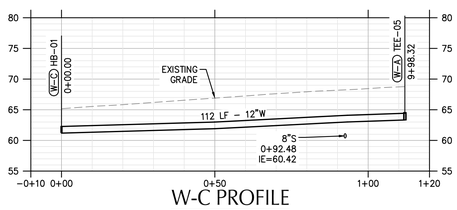
MAIN ROAD PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



W-B PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



W-C PROFILE

SCALE: HORIZ: 1" = 20'
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SCALE 1 INCH = 20 FEET
20 0 20 40

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WATER PROFILES

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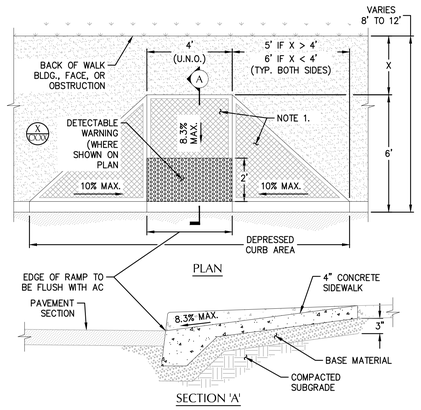
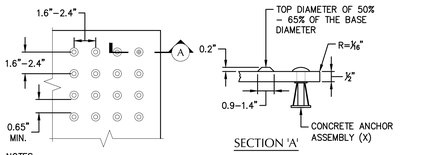


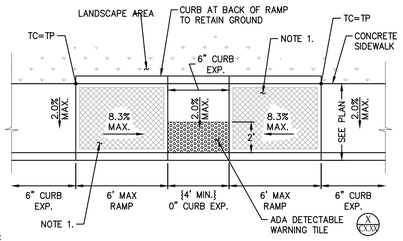
NOTES:
1. PROVIDE RAMP TEXTURING WITH AN EXPANDED METAL GRATE PLACED ON AND REMOVED FROM WET CONCRETE TO LEAVE A DIAMOND PATTERN. EACH DIAMOND SHALL BE 1¼" LONG BY ½" WIDE WITH THE LONG SECTION AXIS ORIENTED PERPENDICULAR TO THE CURB. THE GROOVES SHALL BE ⅛" DEEP BY ¼" WIDE.

X CURB RAMP - TYPE 1
SCALE: NTS



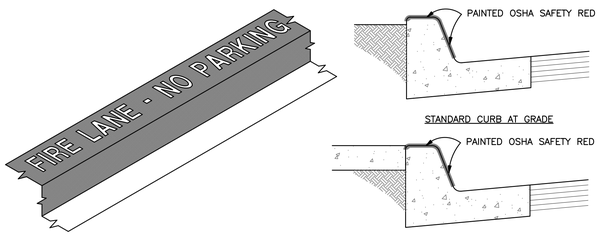
NOTES:
1. DETECTABLE WARNINGS SHALL BE INSTALLED AS SHOWN IN PLANS AND DETAILS AND TO THE FULL WIDTH OF CURB RAMP OR FLUSH SURFACE. THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES FROM THE CURB LINE OR OTHER POTENTIAL HAZARD.
2. DETECTABLE WARNING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. MANUFACTURER OF DETECTABLE WARNING:
   ARMORCAST CAST IN PLACE DETECTABLE WARNING PANELS
   PH: (818) 982–3600 – ARMORCASTPROD.COM
   COLOR: SAFETY YELLOW
   OR APPROVED EQUAL

X DETECTABLE WARNING - TYPE 2
SCALE: NTS



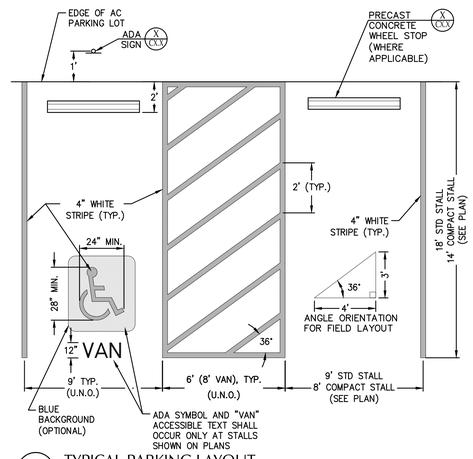
NOTES:
1. PROVIDE RAMP TEXTURING WITH AN EXPANDED METAL GRATE PLACED ON AND REMOVED FROM WET CONCRETE TO LEAVE A DIAMOND PATTERN. EACH DIAMOND SHALL BE 1¼" LONG BY ½" WIDE WITH THE LONG SECTION AXIS ORIENTED PERPENDICULAR TO THE CURB. THE GROOVES SHALL BE ⅛" DEEP BY ¼" WIDE.

X CURB RAMP - TYPE 5
SCALE: NTS

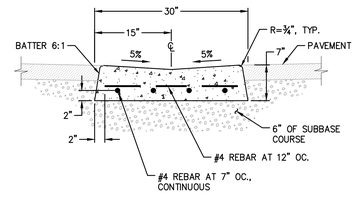


NOTES
1. CURBS SHALL BE PAINTED OSHA SAFETY RED.
2. "FIRE LANE – NO PARKING" SHALL BE PAINTED ON TOP OR FRONT OF CURB IN 3" WHITE
3. LETTERING AT A SPACING OF 30' ON CENTER OR PORTION THEREOF.

X FIRE LANE CURB MARKING
SCALE: NTS



X TYPICAL PARKING LAYOUT
SCALE: NTS



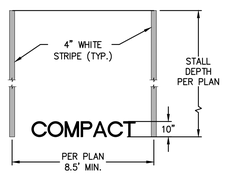
NOTES:
1. CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING. CONSTRUCT EXPANSION JOINTS AT 40' MAX SPACING.

X VALLEY GUTTER
SCALE: NTS



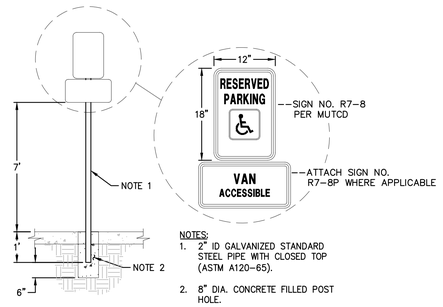
NOTES:
1. STRIPING TO MEET {JURISDICTION} CODE SECTION {REFERENCE NO.}.
2. STRIPING MATERIAL TO BE THERMAL PLASTIC OR OTHER HEAVY–DUTY MATERIAL THAT WILL HAVE RELATIVELY LITTLE MAINTENANCE.

X CROSSWALK STRIPING
SCALE: NTS



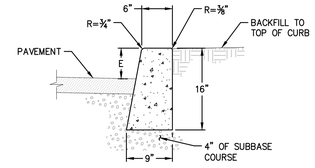
NOTES:
1. STRIPING TO MEET {JURISDICTION} CODE SECTION {REFERENCE NO.}.
2. STRIPING MATERIAL TO BE THERMAL PLASTIC OR OTHER HEAVY–DUTY MATERIAL THAT WILL HAVE RELATIVELY LITTLE MAINTENANCE.

X COMPACT STRIPING
SCALE: NTS



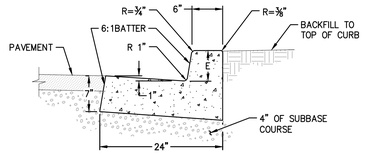
NOTES:
1. 2" ID GALVANIZED STANDARD STEEL PIPE WITH CLOSED TOP (ASTM A120–65).
2. 8" DIA. CONCRETE FILLED POST HOLE.

X ADA PARKING SIGN - TYPE 1
SCALE: NTS



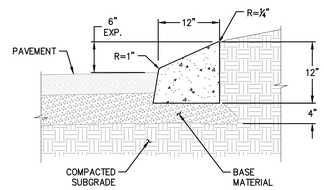
NOTES:
1. CURB EXPOSURE 'E' = 6", TYP. VARY AS SHOWN ON PLANS OR AS DIRECTED.
2. CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY.
3. TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 2% UNLESS OTHERWISE SHOWN OR AS DIRECTED.
4. DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM WITH CURB MACHINE AS APPROVED BY THE ENGINEER.

X CONCRETE CURB - STANDARD
SCALE: NTS



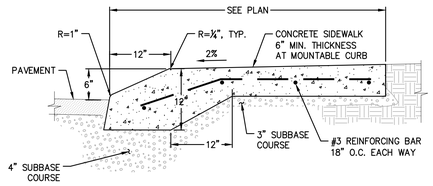
NOTES:
1. CURB EXPOSURE 'E' = 6", TYP. VARY AS SHOWN ON PLANS OR AS DIRECTED.
2. CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY.
3. TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 2% UNLESS OTHERWISE SHOWN OR AS DIRECTED.
4. DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM WITH CURB MACHINE AS APPROVED BY THE ENGINEER.

X CONCRETE CURB AND GUTTER
SCALE: NTS



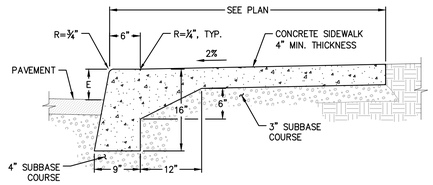
NOTES:
1. CONCRETE SHALL BE 3000 PSI.
2. INSTALL CONTRACTION AND EXPANSION JOINTS AT SPECIFIED DISTANCE.

X CONCRETE CURB - MOUNTABLE
SCALE: NTS



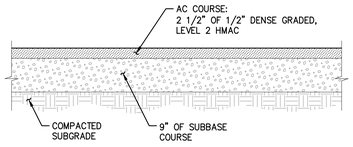
NOTES:
1. CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING, AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY, UNLESS NOTED OTHERWISE.
2. TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 2% UNLESS OTHERWISE SHOWN OR AS DIRECTED.
3. DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM WITH CURB MACHINE AS APPROVED BY THE ENGINEER.

X HEAVY MOUNTABLE CURB & SIDEWALK - MONOLITHIC
SCALE: NTS

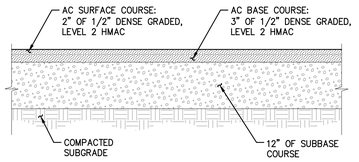


NOTES:
1. CURB EXPOSURE 'E' = 6", TYP. VARY AS SHOWN ON PLANS OR AS DIRECTED.
2. CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS. CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING, AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY, UNLESS NOTED OTHERWISE.
3. TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 2% UNLESS OTHERWISE SHOWN OR AS DIRECTED.
4. DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM WITH CURB MACHINE AS APPROVED BY THE ENGINEER.

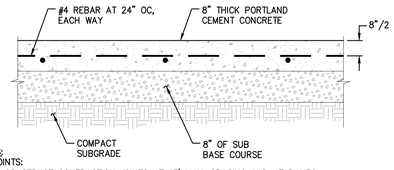
X CURB & SIDEWALK - MONOLITHIC
SCALE: NTS



X ASPHALT PAVEMENT SECTION - LIGHT DUTY
SCALE: NTS

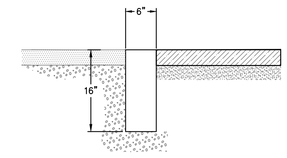


X ASPHALT PAVEMENT SECTION - HEAVY DUTY
SCALE: NTS



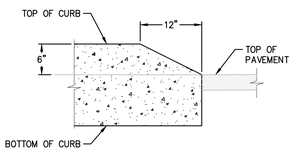
NOTES:
1. JOINTS:
   – CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS.
   – CONSTRUCT EXPANSION JOINTS AT 200' MAX. SPACING AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY.
2. PROVIDE MEDIUM TO COARSE BROOM FINISH.
3. SEE LANDSCAPE PLANS FOR SCORING PATTERN

X REINFORCED CONCRETE PAVEMENT SECTION
SCALE: NTS

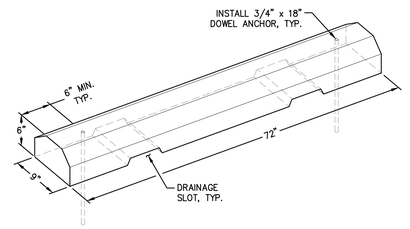


NOTES:
1. CONSTRUCT CONTRACTION JOINT SPACING AT 15 FEET, AND AT ENDS OF EACH INLET AND RAMP. CONSTRUCT EXPANSION JOINT AT 200 FEET MAXIMUM SPACING, AT POINTS OF TANGENCY AND AT ENDS OF EACH DRIVEWAY.

X FLUSH CURB
SCALE: NTS



X CONCRETE CURB - ENDING
SCALE: NTS



NOTES:
1. DIMENSIONS ARE NOMINAL AND MAY VARY TO CONFORM TO MANUFACTURER'S PRODUCTS APPROVED BY ENGINEER.

X PRECAST CONCRETE WHEEL STOP
SCALE: NTS

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

CIVIL DETAILS

C9.00

4/5/2018
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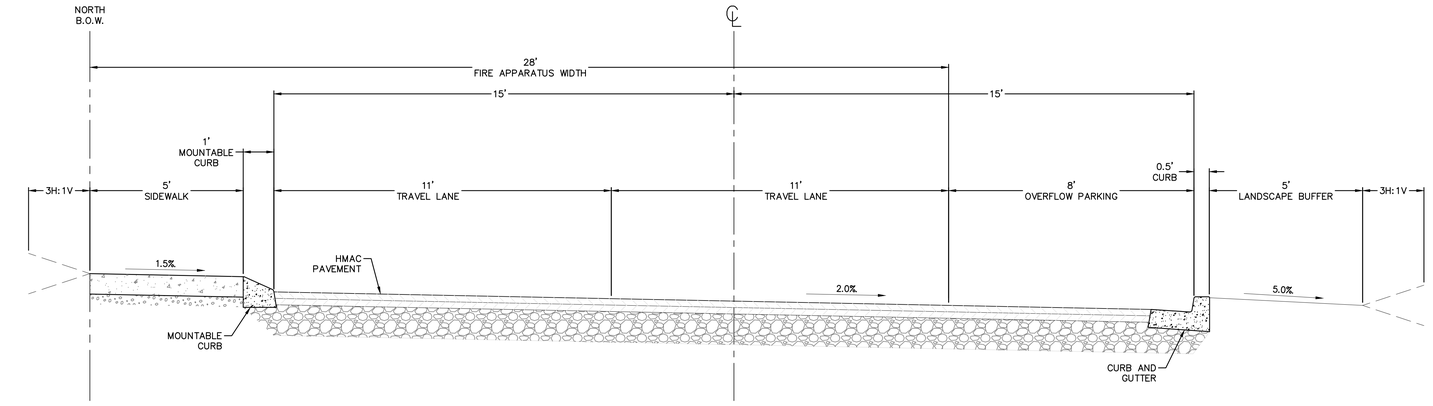
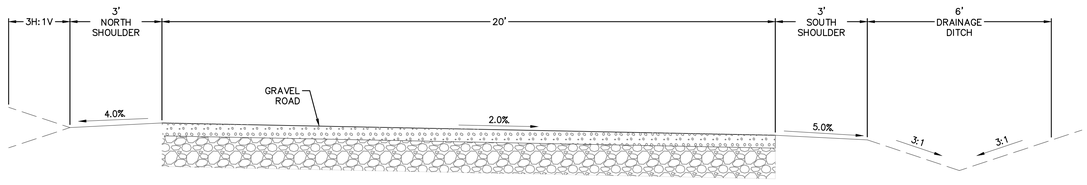


X TYPICAL SECTION - MAIN ROAD
SCALE: NTS



X TYPICAL SECTION - GRAVEL ROAD
SCALE: NTS

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

CIVIL DETAILS

C9.01

4/5/2018
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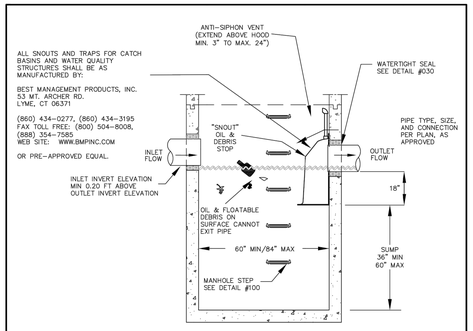


NOTES:

1. ALL MANHOLE SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478 AND APPLICABLE PROVISIONS OF STD. MANHOLE DRAWING NO. 010.
2. INLET AND OUTLET PIPE NOT TO EXCEED 18"DIA.
3. PROVIDE SPECIAL DETAIL FOR SNOUT 18" DIA.
4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY THE OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATIONS.
5. ANCHORING HARDWARE FOR THE HOOD SHALL BE EMBEDDED INTO CONCRETE; ANCHORING INTO GROUT IS NOT AUTHORIZED.
6. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL.
7. INSTALL PER MANUFACTURER'S INSTRUCTION AND USING MANUFACTURER'S INSTALLATION KIT.

SUMP VOLUME AVAILABLE PER DEPTH OF SUMP

	36" MINIMUM	60" MAXIMUM
60" M.H.=	58.9 CF	98.1 CF
72" M.H.=	84.8 CF	141.3 CF
84" M.H.=	115.4 CF	192.4 CF

PROVIDE SPECIAL DETAIL FOR VOLUME REQUIREMENTS EXCEEDING 192.4 CF

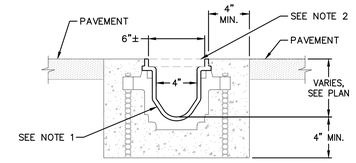
SUMP VOLUME REQUIREMENTS
20 CF/1.0 CFS OF INFLOW
58.9 CF MINIMUM REQUIRED

WATER QUALITY MANHOLE (SNOUT) A

DRAWING NO. 250 REVISED 12-16

CleanWater Services

X CWS WATER QUALITY MANHOLE (SNOUT) A
SCALE: NTS

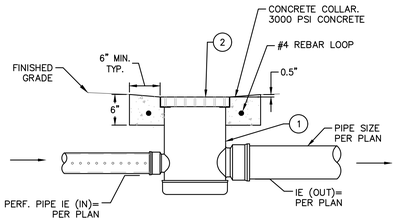


SECTION

NOTES:

1. TRENCH DRAIN SHALL BE NEUTRAL-SLOPED 6" WIDE ZURN OR ACO TRENCH DRAIN OR APPROVED EQUAL.
2. TRENCH DRAINS GRATE SHALL BE LOCKABLE HEAVY DUTY TRENCH GRATE - CLASS C.
3. TRENCH SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

X TRENCH DRAIN - 6 INCH WIDE
SCALE: NTS

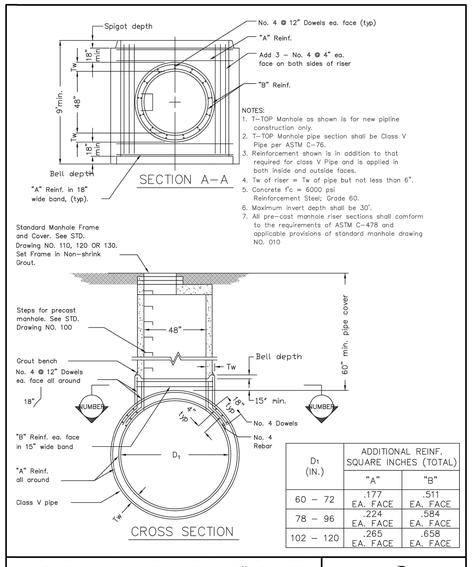


X KEY NOTES

1 12" NYLOPLAST DRAIN BASIN, OR APPROVED EQUAL

2 12" PEDESTRIAN HINGED GRATE, H-10 RATED BY ADS, OR APPROVED EQUAL.

X AREA DRAIN - TYPE X
SCALE: NTS



NOTES:

1. T-TOP Manhole as shown is for new pipline construction only.
2. T-TOP Manhole pipe section shall be Class V Pipe per ASTM C-76.
3. Reinforcement shown is in addition to that required for class V Pipe and is applied in both inside and outside faces.
4. Tw of riser = Tw of pipe but not less than 6".
5. Concrete f'c = 6000 psi Reinforcement Steel, Grade 60.
6. Maximum invert depth shall be 30'.
7. All pre-cast manhole riser sections shall comform to the requirements of ASTM C-478 and applicable provisions of standard manhole drawing NO. 010

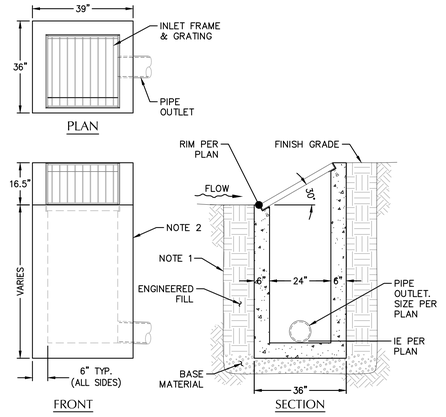
D1 (IN.)	ADDITIONAL REINF. SQUARE INCHES (TOTAL) "A"	"B"
60 - 72	.177 EA. FACE	.511 EA. FACE
78 - 96	.224 EA. FACE	.584 EA. FACE
102 - 120	.265 EA. FACE	.658 EA. FACE

T-TOP MANHOLE WITH 48" RISER

DRAWING NO. 230 REVISED 12-06

CleanWater Services

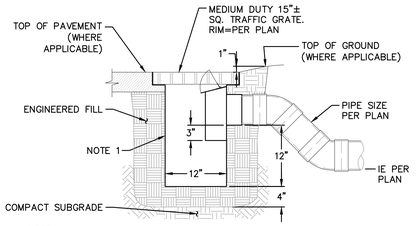
X CWS T-TOP MANHOLE WITH 48" RISER
SCALE: NTS



NOTES:

1. CONTRACTOR TO WIDEN EXCAVATION AS REQUIRED TO OBTAIN COMPACTION WITH CONTRACTORS COMPACTION EQUIPMENT.
2. CONCRETE BASIN TO BE 3000 PSI.

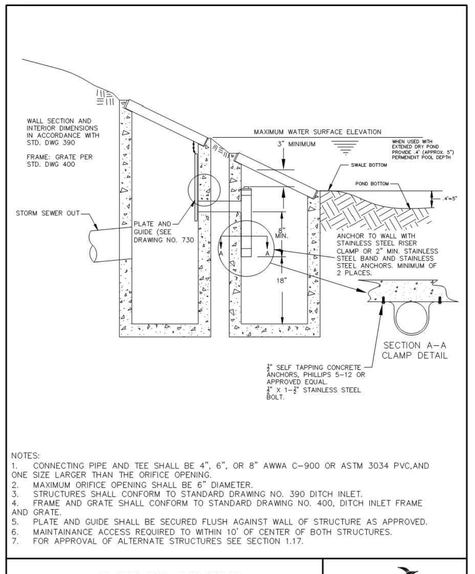
X DITCH INLET - TYPE 1
SCALE: NTS



NOTE:

1. 10 GAGE STEEL PLATE, BITUMINOUS COATED, AS MANUFACTURED BY GIBSON STEEL BASINS OR APPROVED EQUAL.

X TRAPPED AREA DRAIN
SCALE: NTS



NOTES:

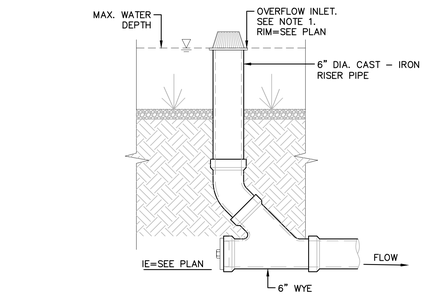
1. CONNECTING PIPE AND TEE SHALL BE 4", 6", OR 8" AWWA C-900 OR ASTM 3034 PVC,AND ONE SIZE LARGER THAN THE ORIFICE OPENING.
2. MAXIMUM ORIFICE OPENING SHALL BE 6" DIAMETER.
3. STRUCTURES SHALL CONFORM TO STANDARD DRAWING NO. 390 DITCH INLET.
4. FRAME AND GRATE SHALL CONFORM TO STANDARD DRAWING NO. 400, DITCH INLET FRAME AND GRATE.
5. PLATE AND GUIDE SHALL BE SECURED FLUSH AGAINST WALL OF STRUCTURE AS APPROVED.
6. MAINTAINANCE ACCESS REQUIRED TO WITHIN 10' OF CENTER OF BOTH STRUCTURES.
7. FOR APPROVAL OF ALTERNATE STRUCTURES SEE SECTION 1.17.

OUTFLOW CONTROL STRUCTURE

DRAWING NO. 720 REVISED 11-06

CleanWater Services

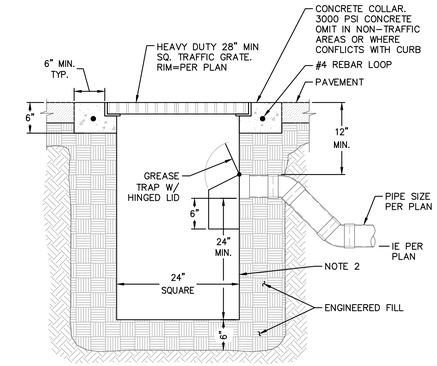
X DRY BASIN OUTLET STRUCTURE
SCALE: NTS



NOTES:

1. OVERFLOW INLET WITH ATRIUM GRATE. ATRIUM GRATE SHALL BE 6" DIAMETER FROM NDS OR APPROVED EQUAL.

X OVERFLOW INLET - TYPE 1
SCALE: NTS

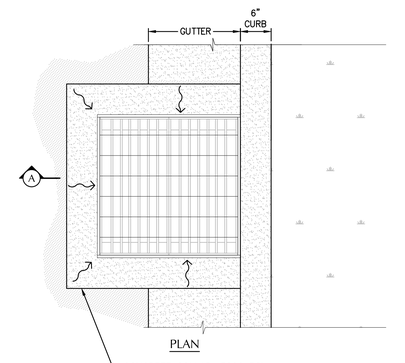


SECTION

NOTES:

1. CONTRACTOR TO WIDEN EXCAVATION AS REQUIRED TO OBTAIN COMPACTION WITH CONTRACTORS COMPACTION EQUIPMENT.
2. 1/4" STEEL PLATE, BITUMINOUS COATED. AS MANUFACTURED BY GIBSON STEEL BASINS OR APPROVED EQUAL.

X TRAPPED CATCH BASIN
SCALE: NTS



NOTES:

1. CONTRACTOR TO WIDEN EXCAVATION AS REQUIRED TO OBTAIN COMPACTION WITH CONTRACTORS COMPACTION EQUIPMENT.
2. ¼" STEEL PLATE, BITUMINOUS COATED. AS MANUFACTURED BY GIBSON STEEL BASINS OR APPROVED EQUAL.

X TRAPPED CATCH BASIN AT CURB
SCALE: NTS

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

CIVIL DETAILS

C9.02

4/5/2018
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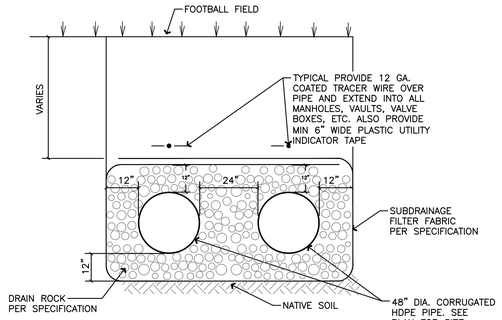
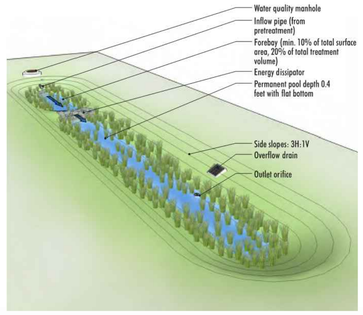
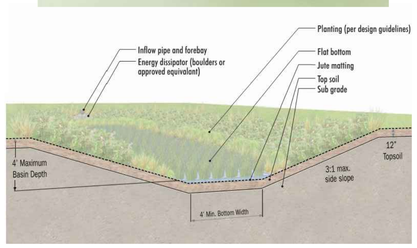
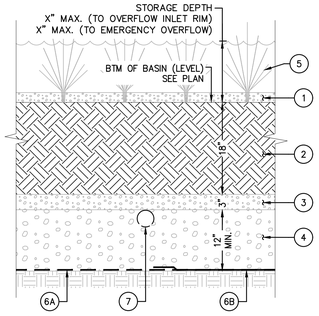


X DETENTION PIPING
SCALE: NTS





X EXTENDED DRY BASIN
SCALE: NTS



X KEY NOTES

1 INSTALL {GEOJUTE PLUS OR COCONUT FIBER MATTING} {2" THICK LAYER OF PEA GRAVEL OR OTHER NON-FLOATING MULCH}.

2 STORMWATER FACILITY GROWING MEDIA PER SPECS.

3 DRAINAGE LENS COURSE (¾" – NO. 4 OPEN GRADED AGGREGATE).

4 DRAINAGE FILL PER SPECS.

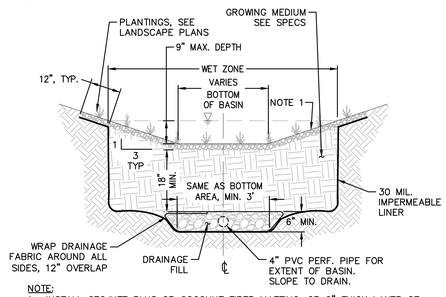
5 PLANTING SEE LANDSCAPE PLANS.

6A DRAINAGE FABRIC, WRAP UP SIDES AND OVERLAP TOP DRAINAGE LENS 12" MIN. {DELETE IF NOT USED}

6B 30 MIL IMPERMEABLE LINER, WHERE SHOWN ON PLAN. {DELETE IF NOT USED}

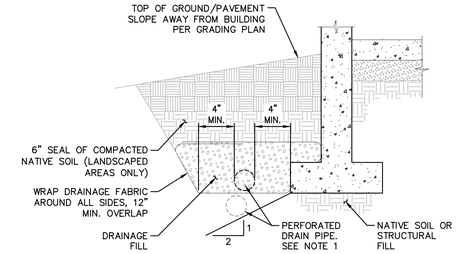
7 4" PVC PERF. PIPE, ORIENT WITH HOLES FACING DOWN. {DELETE IF NOT USED}

X TYPICAL STORMWATER FACILITY SECTION
SCALE: NTS



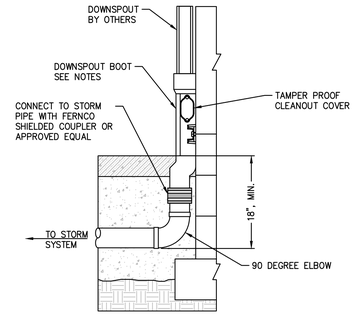
NOTE:
1. INSTALL GEOJUTE PLUS OR COCONUT FIBER MATTING, OR 2" THICK LAYER OF PEA GRAVEL OR OTHER NON-FLOATING MULCH AS APPROVED BY LANDSCAPE ARCHITECT.

X TYP. VEGETATED FILTRATION BASIN (VFB)
SCALE: NTS



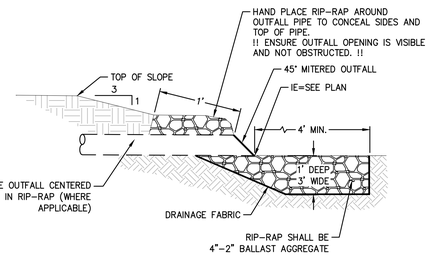
NOTES:
1. LAY PERFORATED DRAIN PIPE ON MIN. 0.5% GRADIENT, WIDENING EXCAVATION AS REQUIRED. MAINTAIN PIPE ABOVE 2:1 SLOPE AS SHOWN.
2. CONNECT TO FOUNDATION DRAIN STUBOUT SHOWN ON PLANS.

X PERIMETER FOUNDATION DRAIN
SCALE: NTS

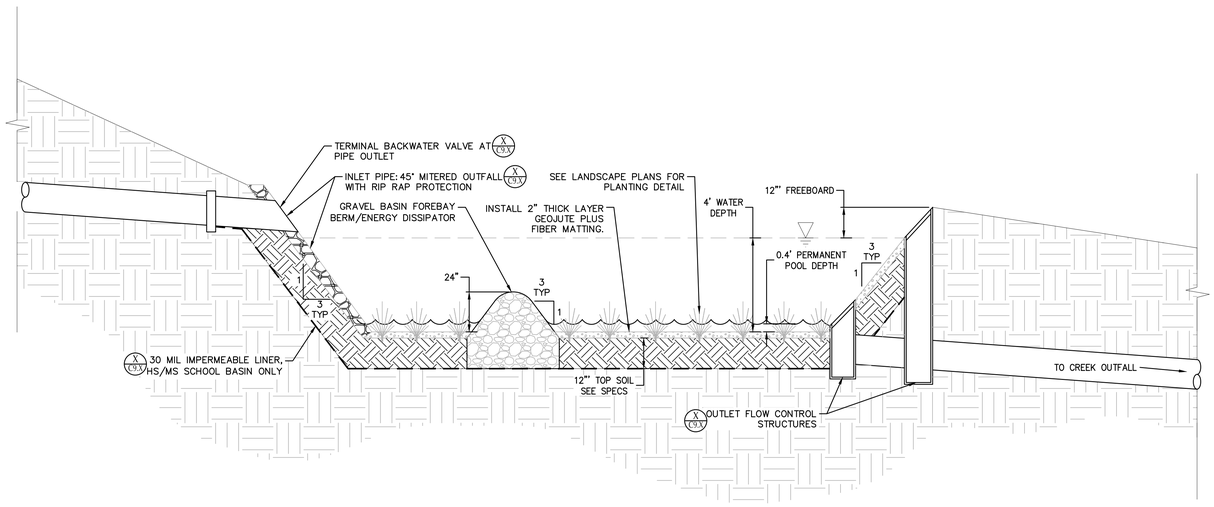


NOTES:
1. ROOF DOWNSPOUTS SHALL CONNECT TO UNDERGROUND STORM PIPES WITH PRE-MANUFACTURED DOWNSPOUT BOOT PRODUCT SIZED TO DOWNSPOUT PIPE USED.
2. DOWNSPOUT BOOT SHALL INCLUDE ABOVE GRADE CLEANOUT WITH TAMPER PROOF COVER.
3. DOWNSPOUT BOOT AS MANUFACTURED BY ZURN, DOWNSPOUTBOOT.COM OR APPROVED EQUAL.

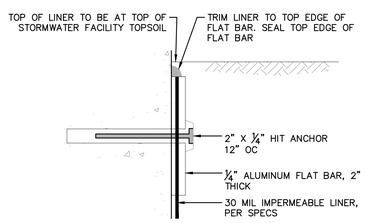
X DOWNSPOUT CONNECTION TO STORM SYSTEM
SCALE: NTS



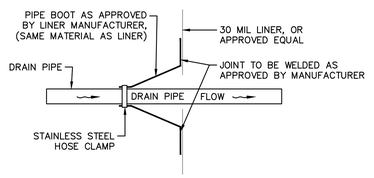
X OUTFALL RIP-RAP PROTECTION
SCALE: NTS



X EXTENDED DRY BASIN
SCALE: NTS

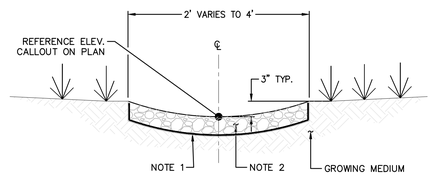


LINER ATTACHMENT



PIPE BOOT

X IMPERMEABLE LINER
SCALE: NTS



NOTE:
1. 30 MIL IMPERMEABLE PVC LINER.
2. 4" THICK LAYER OF 2" TO ¾" DECORATIVE RIVER ROCK.

X CONVEYANCE SWALE - TYPE 2
SCALE: NTS

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

CIVIL DETAILS

C9.03

4/5/2018
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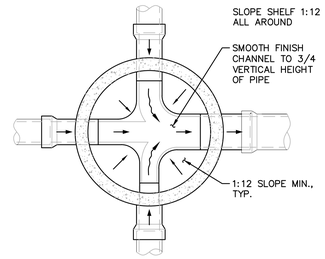
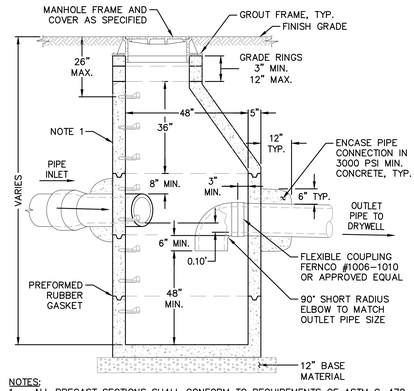


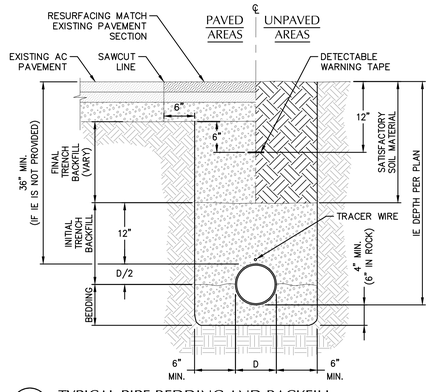
NOTES:
1. BASED MAY BE PRECAST OR CAST IN PLACE.
2. ALL PRECAST SECTIONS SHALL CONFORM TO REQUIREMENTS OF ASTM C-478.
3. CONCRETE SHALL BE COMMERCIAL GRADE.
4. CHANNELS SHALL BE CONSTRUCTED TO PROVIDE SMOOTH SLOPES AND RAIDII TO OUTLET PIPE.
5. EXTEND PIPE INTO MANHOLE AND GROUT SMOOTH. PIPE(S) MAY EXTEND 2" MAX BEYOND THE INTERIOR MANHOLE WALL.

X MANHOLE BASE - STANDARD
SCALE: NTS

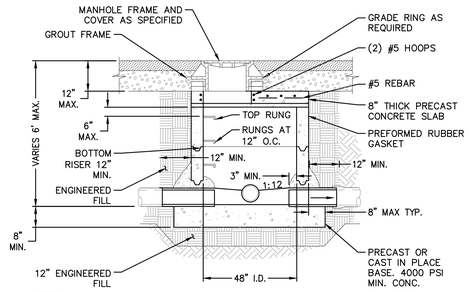


NOTES:
1. ALL PRECAST SECTIONS SHALL CONFORM TO REQUIREMENTS OF ASTM C-478.
2. MANHOLE BASE MAY BE PRECAST OR CAST IN PLACE.
3. ALL CONNECTING PIPES SHALL HAVE FLEXIBLE, GASKETED AND UNRESTRAINED JOINT WITHIN 18" OF MANHOLE VAULT.

X SEDIMENTATION MANHOLE
SCALE: NTS

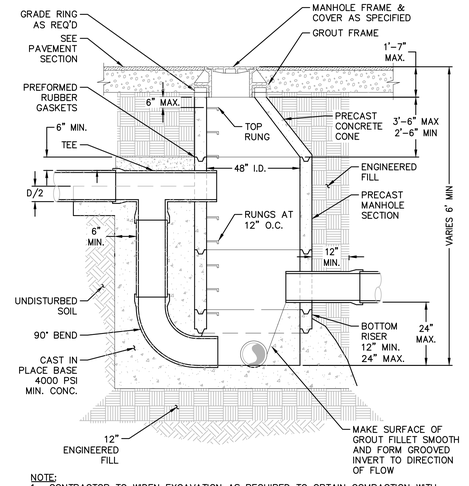


X TYPICAL PIPE BEDDING AND BACKFILL
SCALE: NTS



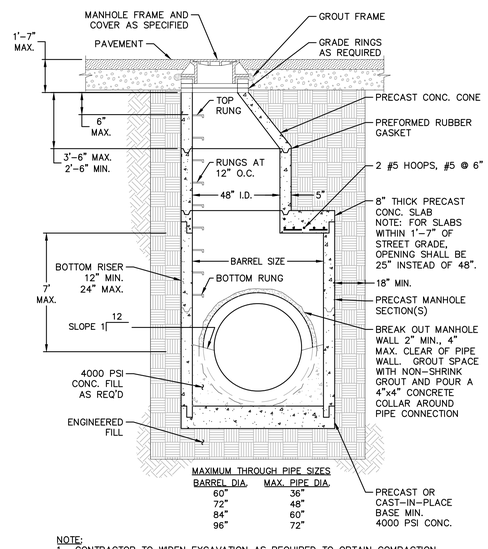
NOTES:
1. CONTRACTOR TO WIDEN EXCAVATION AS REQUIRED TO OBTAIN COMPACTION WITH CONTRACTORS COMPACTION EQUIPMENT.

X SHALLOW MANHOLE
SCALE: NTS



NOTE:
1. CONTRACTOR TO WIDEN EXCAVATION AS REQUIRED TO OBTAIN COMPACTION WITH CONTRACTORS COMPACTION EQUIPMENT.

X OUTSIDE DROP MANHOLE
SCALE: NTS

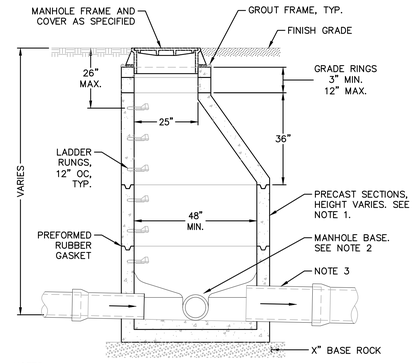


MAXIMUM THROUGH PIPE SIZES

BARREL DIA.	MAX. PIPE DIA.
60"	36"
72"	48"
84"	60"
96"	72"

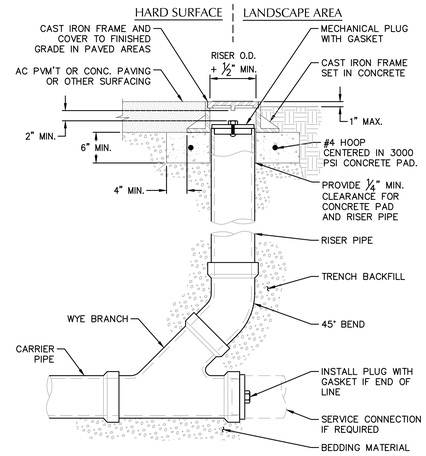
NOTE:
1. CONTRACTOR TO WIDEN EXCAVATION AS REQUIRED TO OBTAIN COMPACTION WITH CONTRACTORS COMPACTION EQUIPMENT.

X OVERSIZED PRECAST CONCRETE MANHOLE
SCALE: NTS



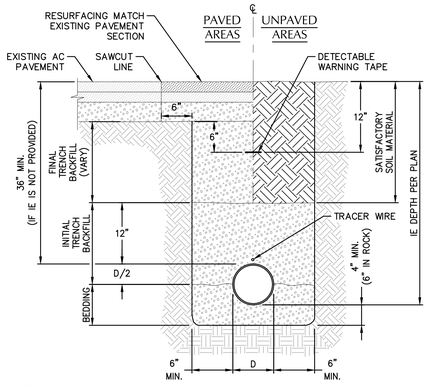
NOTES:
1. ALL PRECAST SECTIONS SHALL CONFORM TO REQUIREMENTS OF ASTM C-478.
2. MANHOLE BASE MAY BE PRECAST OR CAST IN PLACE. SEE STANDARD MANHOLE BASE DETAILS.
3. ALL CONNECTING PIPES SHALL HAVE FLEXIBLE, GASKETED AND UNRESTRAINED JOINT WITHIN 18" OF MANHOLE VAULT..

X STANDARD MANHOLE
SCALE: NTS



NOTES:
1. CAST IRON FRAME AND COVER SHALL MEET H-20 LOAD REQUIREMENT.
2. FOR CARRIER PIPE SIZE 6"Ø AND LESS, PROVIDE RISER PIPE SIZE TO MATCH CARRIER PIPE.
3. FOR CARRIER PIPE SIZE 8"Ø AND LARGER, RISER PIPE SHALL BE 6"Ø.
4. RISER PIPE MATERIAL TO MATCH CARRIER PIPE MATERIAL.

X STANDARD CLEANOUT (COTG)
SCALE: NTS



X TYPICAL PIPE BEDDING AND BACKFILL
SCALE: NTS

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

CIVIL DETAILS

C9.04

4/5/2018
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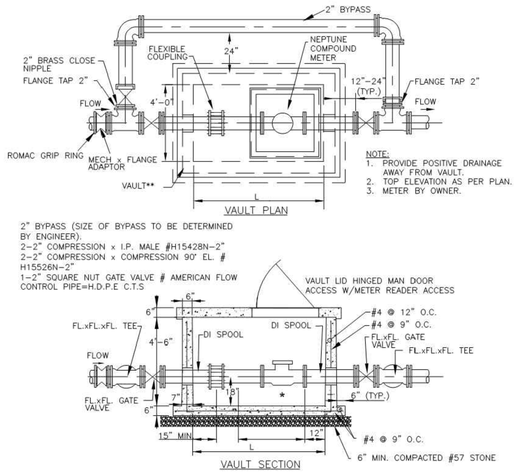
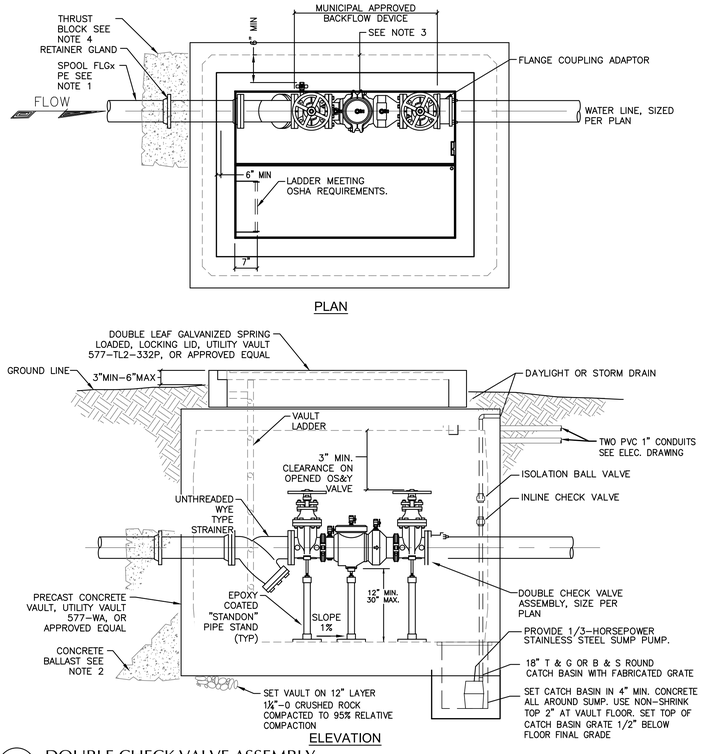


City of Astoria
Public Works Department
1095 Duane Street

3 to 10 Inch Water Service Detail

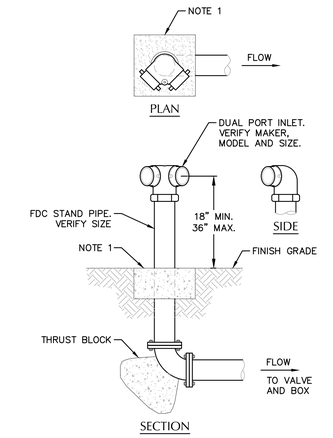
Date Adopt. 11/01/12	**Date Rev.** 09/11/17	DWG. NO. W-5
Dwg. Name: W-5 3 to 10 Inch Water Service.dwg		

X WATER METER ASSEMBLY
SCALE: NTS



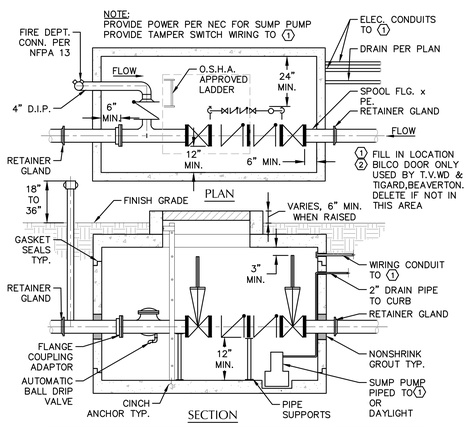
X DOUBLE CHECK VALVE ASSEMBLY
SCALE: NTS

NOTES:
1. CONTRACTOR TO SEAL ALL OPENINGS IN VAULT W/NON SHRINK GROUT.
2. CONTRACTOR TO INSTALL CONCRETE BALLAST 3CU YDS MIN AROUND BASE OF VAULT WHERE FLOODING OR HIGH GROUND WATER EXIST.
3. 12" CLEARANCE BETWEEN WALL & DEVICE.
4. THRUST BLOCK 12"MIN THICKNESS
5. DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY PER AWWA C510, AND THE OREGON HEALTH DIVISION. WILKINS MODEL 350 OR APPROVED EQUAL. CONFIRM MODEL WITH JURISDICTION HAVING AUTHORITY PRIOR TO ORDERING.



NOTES:
1. CONCRETE ANCHOR PAD TO BE 12"x12"x6" THICK, UNLESS NOTED OTHERWISE. ELIMINATE IF INSTALLED IN CONCRETE PAVED AREA.
2. USE FLANGE OR THREADED FITTINGS.
3. CONTRACTOR SHALL PROVIDE SINGLE CHECK VALVE AND BALL DRIP VALVE IN ACCESSIBLE LOCATION INSIDE DDCV VAULT. COORDINATE WITH PLUMBING.

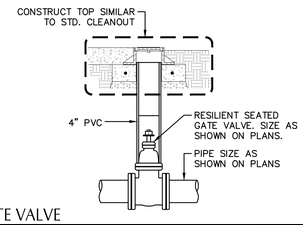
X FIRE DEPARTMENT CONNECTION (FDC) DUAL PORT
SCALE: NTS



D.D.C. SIZE	UTILITY VAULT OR EQUAL	
	WITH F.D.C.	WITHOUT F.D.C.
4"	676 – WA	577 – WA
6"	687 – WA	676 – WA
8"	5106 – LA	687 – WA
10"	5106 – LA	5106 – LA

2 BILCO DOOR OR EQUAL
J – 5AL
J – 5AL
JD – 3AL
JD – 3AL

X DOUBLE DETECTOR CHECK FIRE SERVICE VAULT W/ SUMP PUMP
SCALE: NTS



X GATE VALVE
SCALE: NTS

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

CIVIL DETAILS

C9.05

4/5/2018
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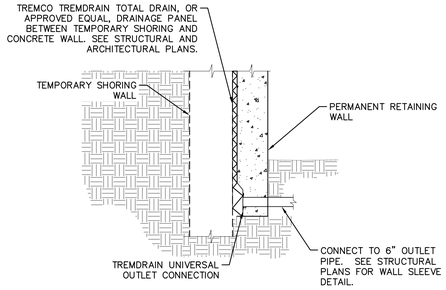
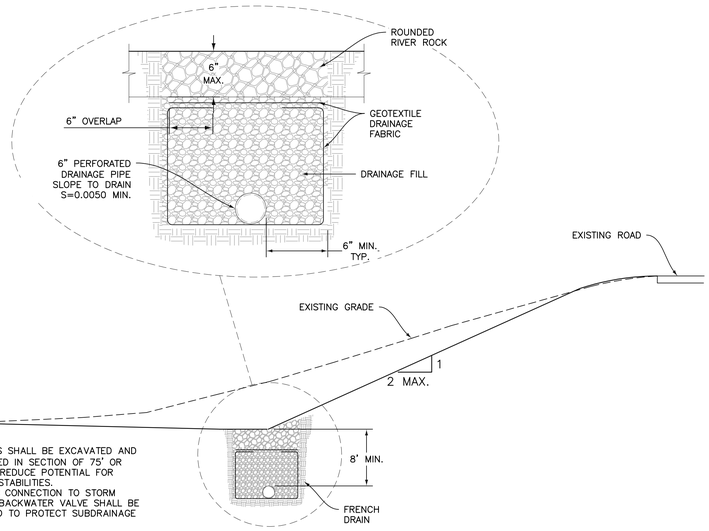
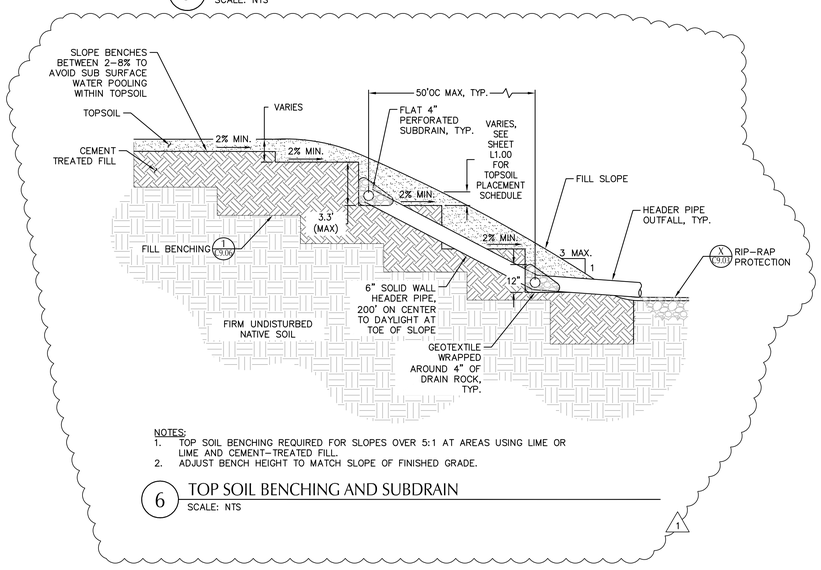


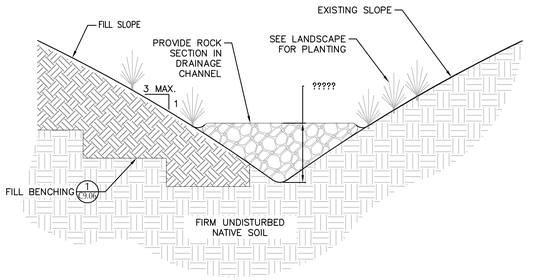
8 SOIL NAIL RETAINING WALL DRAIN PANEL
SCALE: NTS



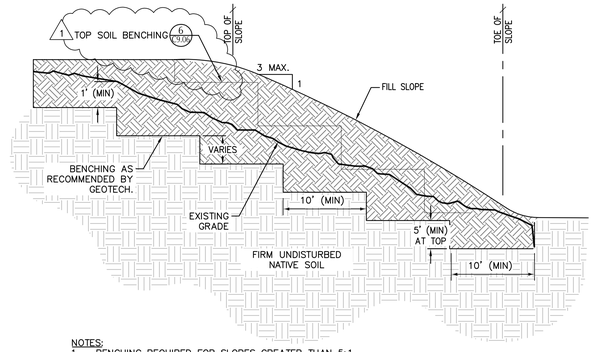
5 FRENCH DRAIN AT CUT SLOPES
SCALE: NTS



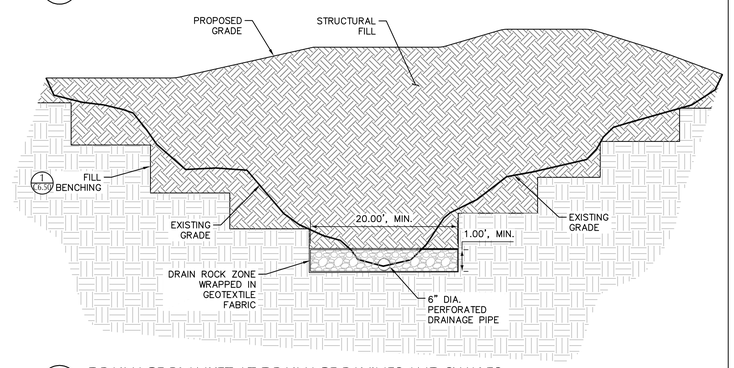
6 TOP SOIL BENCHING AND SUBDRAIN
SCALE: NTS



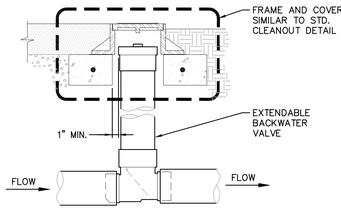
7 DRAINAGE CHANNEL ROCK SECTION
SCALE: NTS



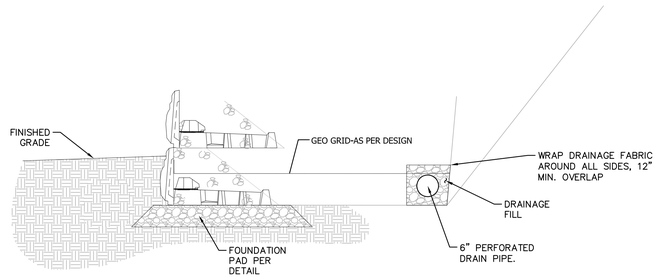
1 FILL BENCHING AND TOE KEYWAY
SCALE: NTS



2 DRAINAGE BLANKET AT DRAINAGE RAVINES AND SWALES
SCALE: NTS



3 EXTENDABLE BACKWATER VALVE
SCALE: NTS



4 RETAINING WALL DRAIN
SCALE: NTS

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phase	Bid Package 1
date	4/5/2018
revisions	
1 BP#1	4/19/2018
project #	17007

CIVIL DETAILS

C9.06

4/19/2018
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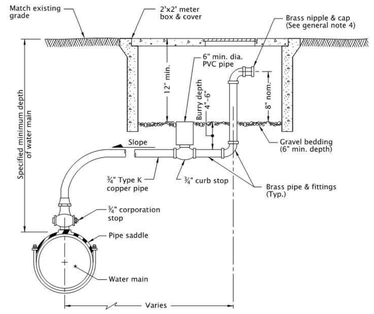
rd266.dgn 25-JUL-2017



GENERAL NOTES FOR ALL DETAILS:

1. Locate at high point of main.
2. Tap top of main.
3. Provide insulation and additional depth when specified for freeze protection.
4. Provide minimum 6" side clearance.
5. See project plans for details not shown.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 25-JUL-2017

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

MANUAL AIR-RELEASE ASSEMBLY (¾")

2018

DATE	REVISION DESCRIPTION

RD266

Effective Date: December 1, 2017 – May 31, 2018 **RD266**

rd300.dgn 25-JUL-2017

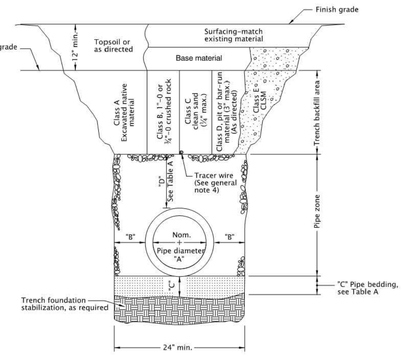


TABLE A

"A" (in)	"B" (in)	"C" (in)	"D" (in)
4	10	4	8
6	10	4	8
8	10	6	10
10	10	6	10
12	12	6	10
15	12	6	10
18	16	6	12
21	16	6	12
24	18	6	12
30	18	6	12
36	24	6	14
42	24	6	14
48	24	6	14
54	24	6	14
60	24	6	14
66	24	6	14
72	24	6	14

For pipes over 72" diameter, see general note 3.

MULTIPLE INSTALLATIONS

DIAMETER	MIN. SPACE BETWEEN PIPES
Up to 48"	24"
48" to 72"	One half (½) dia. of pipe

GENERAL NOTES FOR ALL DETAILS:

1. Surfacing of paved areas shall comply with street cut Std. Dwg. RD302.
2. For pipe installation in embankment areas where the trench method will not be used and the pipe is ≥ 36" diameter, increase dimension "B" to nominal pipe diameter.
3. Pipes over 72" diameter are structures, and are not applicable to this drawing.
4. See Std. Dwg. RD336 for tracer wire details (When required).

CALC. BOOK NO. N/A

BASELINE REPORT DATE 14-JUL-2014

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

TRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS

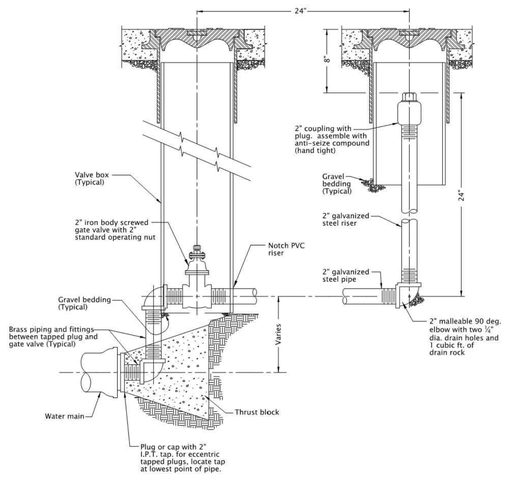
2018

DATE	REVISION DESCRIPTION

RD300

Effective Date: December 1, 2017 – May 31, 2018 **RD300**

rd262.dgn 25-JUL-2017



GENERAL NOTES FOR ALL DETAILS:

1. Wrap main and fittings in thrust block zone with two layers of polyethylene film to facilitate future removal.
2. In lieu of concrete thrust block, restrain pipe or pour concrete straddle block.
3. See project plans for details not shown.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 25-JUL-2017

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

TYPICAL MAIN DEAD-END BLOWOFF ASSEMBLY

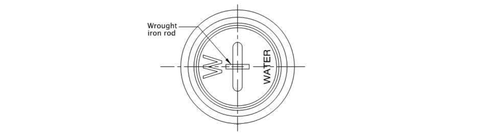
2018

DATE	REVISION DESCRIPTION

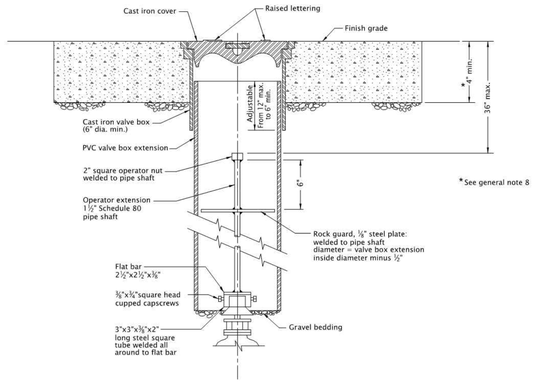
RD262

Effective Date: December 1, 2017 – May 31, 2018 **RD262**

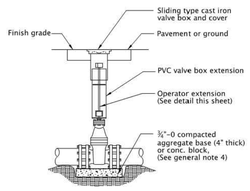
rd258.dgn 25-JUL-2017



COVER PLAN



VALVE BOX EXTENSION SECTION



VALVE BOX ASSEMBLY DETAIL

GENERAL NOTES FOR ALL DETAILS:

1. Valve box not to rest on operating assembly.
2. Operator extension required when valve nut is deeper than 4' from finish grade.
3. Center valve box on axis of operator nut.
4. Valves 12" and smaller shall be provided with compacted aggr. base on undisturbed ground. Valves greater than 12" shall be installed on precast concrete block, (4" thick).
5. Welds shall be minimum ¼" all around.
6. Hot dip galvanize operator extension after fabrication.
7. Casting shall meet H20 load requirement.
8. Provide concrete or asphalt pad (24" square, 4" thick), when required.
9. See project plans for details not shown.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 25-JUL-2017

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

VALVE BOX AND OPERATOR EXTENSION ASSEMBLY

2018

DATE	REVISION DESCRIPTION

RD258

Effective Date: December 1, 2017 – May 31, 2018 **RD258**

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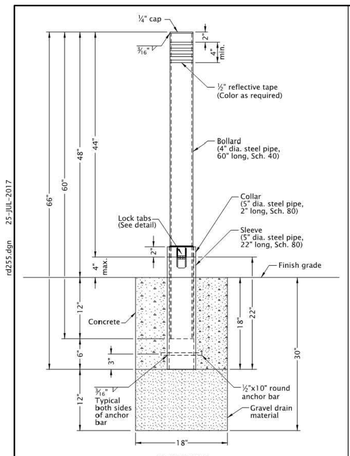
DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

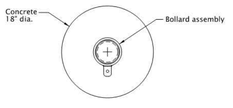
STANDARD DETAILS

C9.10

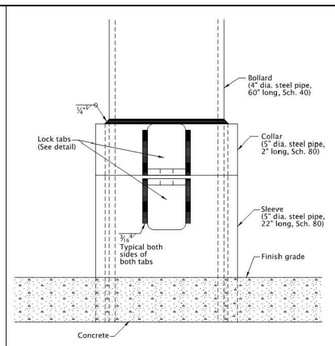
4/5/2018
N:\cip\2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C9.00-DTL.dwg

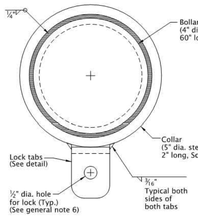


ELEVATION

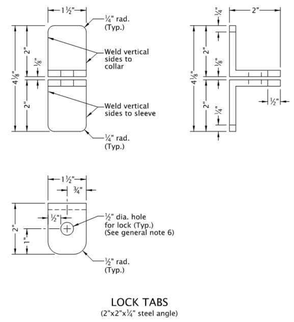


PLAN





COLLAR & LOCK TABS



LOCK TABS
(2"x2"x¼" steel angle)

GENERAL NOTES FOR ALL DETAILS:

1. Grind all edges smooth.
2. Prime and paint bollard safety yellow after fabrication.
3. Hot-dip galvanize sleeve after fabrication.
4. All concrete shall be commercial grade concrete.
5. Orient lock assembly parallel with pedestrian traffic.
6. Provide lock, if required.
7. See project plans for details not shown.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 25-JUL-2017

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NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

HYDRANT BOLLARD

2018

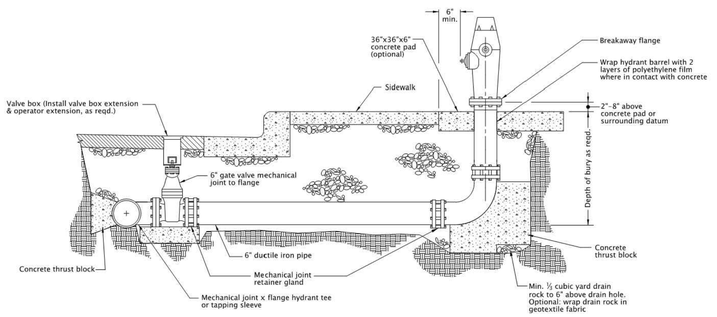
DATE	REVISION DESCRIPTION

rd255.dgn 25-JUL-2017

RD255

Effective Date: December 1, 2017 – May 31, 2018 **RD255**

HYDRANT ASSEMBLY



GENERAL NOTES FOR ALL DETAILS:

1. When pipe is shorter than 18', no joints allowed. Use mechanical joint retainer glands. Two ¾" galvanized tie rods may be used in lieu of thrust blocks for installations less than 18' long. Coat tie rods with two coats of coal tar epoxy.
2. When pipe is longer that 18' retainer glands not required.
3. There shall be a minimum of 18" horizontal clearance around hydrant.
4. When placed adjacent to curb, hydrant port shall be 24" from face of curb.
5. Concrete thrust blocks shall be constructed as per thrust blocking Std. Dwg. RD250. Do not block drain holes.
6. Extensions required for hydrant systems shall be installed to the manufacturer's specifications.
7. Hydrants shall be placed to provide a minimum of 5' clearance from driveways, poles, and other obstructions.
8. Hydrant pumper port shall face direction of access.
9. Set hydrant plumb in all directions.
10. See project plans for details not shown.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 25-JUL-2017

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NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

HYDRANT INSTALLATION

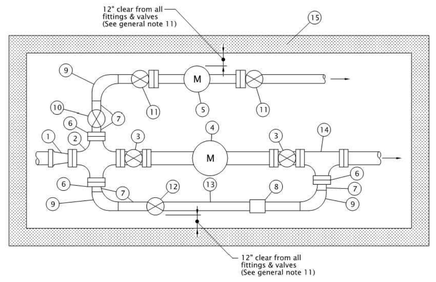
2018

DATE	REVISION DESCRIPTION

rd254.dgn 25-JUL-2017

RD254

Effective Date: December 1, 2017 – May 31, 2018 **RD254**



1. Mechanical joint x flange adapter
2. All-flange cross
3. Flange gate valve
4. Meter (Domestic)
5. Meter (Irrigation)
6. Companion flange
7. Brass nipples
8. Mechanical coupling
9. I.P. x I.P. brass elbow
10. I.P. x I.P. gate valve (Optional)
11. I.P. x meter flange gate valve
12. I.P. x I.P. gate valve
13. Brass pipe
14. All-flange tee
15. Concrete valult

REFERENCE DRAWING ONLY
(NOT FOR CONSTRUCTION)
SEE SPECIAL PROVISIONS FOR
SPECIFIC PROJECT REQUIREMENTS.

GENERAL NOTES FOR ALL DETAILS:

1. Vaults shall be sized per specifications and minimum clearances. When required, vaults shall be designed for site specific conditions by a resistered professional engineer.
2. All vaults shall be supported with adequate concrete floor and shall be designed to prevent bouyancy from groundwater if groundwater exists at any time during the year. Vaults shall be water-tight.
3. Precast concrete utility vaults may be used in lieu of cast-in-place when sizes are available.
4. Backflow devices to be installed on service and irrigation lines as required.
5. Standard bypass size is 2".
6. Service and irrigation line sizes will vary according to need.
7. Tees and valves shall be supported with conc. blocks, jacks or adjustable pipe supports.
8. Vault depth shall be such that there is a minimum clearance to the vault lid of 6" when the valves are fully open.
9. Provide flexible connections on piping within 18" of vault wall.
10. Provide opening and ladder locations, vault drainage and pipe penetrations in accordance with special provisions and contract drawings.
11. Provide 12" clear from all fittings & valves to floor.
12. See project plans for details not shown.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 25-JUL-2017

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OREGON STANDARD DRAWINGS

WATER METER ASSEMBLY (LARGER THAN 2")

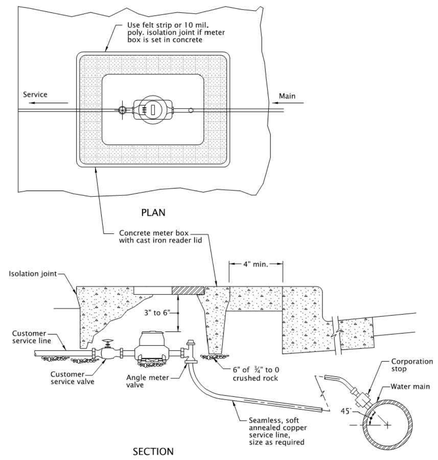
2018

DATE	REVISION DESCRIPTION

rd278.dgn 25-JUL-2017

RD278

Effective Date: December 1, 2017 – May 31, 2018 **RD278**



PLAN

SECTION

GENERAL NOTES FOR ALL DETAILS:

1. Meter to be centered and set plumb inside meter box.
2. Manufactured meter setter may be used for ¾" to 2" services.
3. Set meter box 4" minimum behind curb or sidewalk.
4. Meter boxes set in driveways shall have traffic lids.
5. See project plans for meter box size.
6. See project plans for details not shown.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 25-JUL-2017

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NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

¾" TO 2" WATER SERVICE CONNECTION

2018

DATE	REVISION DESCRIPTION

rd274.dgn 25-JUL-2017

RD274

Effective Date: December 1, 2017 – May 31, 2018 **RD274**

BRIC ARCHITECTURE, INC.
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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

STANDARD DETAILS

C9.11

4/5/2018
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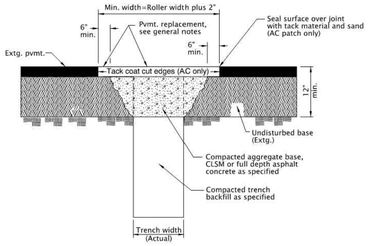

GENERAL NOTES FOR ALL DETAILS:

1. All existing AC or PCC pavement shall be sawcut prior to repaving.
2. Concrete pavement shall be replaced with concrete to a minimum thickness of 6" or to the thickness of removed pavement, whichever is greater.
3. Place AC mix minimum thkn. of 4" or the thkn. of the removed pavement, whichever is greater. Compact as specified.

CALC. BOOK NO. _ _ _ _ N/A _ _ _ _

BASELINE REPORT DATE _ _ 12-JUN-2008 _ _ _ _ _ _

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

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OREGON STANDARD DRAWINGS

STREET CUT

2018

DATE	REVISION DESCRIPTION

Effective Date: December 1, 2017 – May 31, 2018

RD302

RD302
25-JUL-2017
rd302.dgn

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

STANDARD DETAILS

C9.12

4/5/2018
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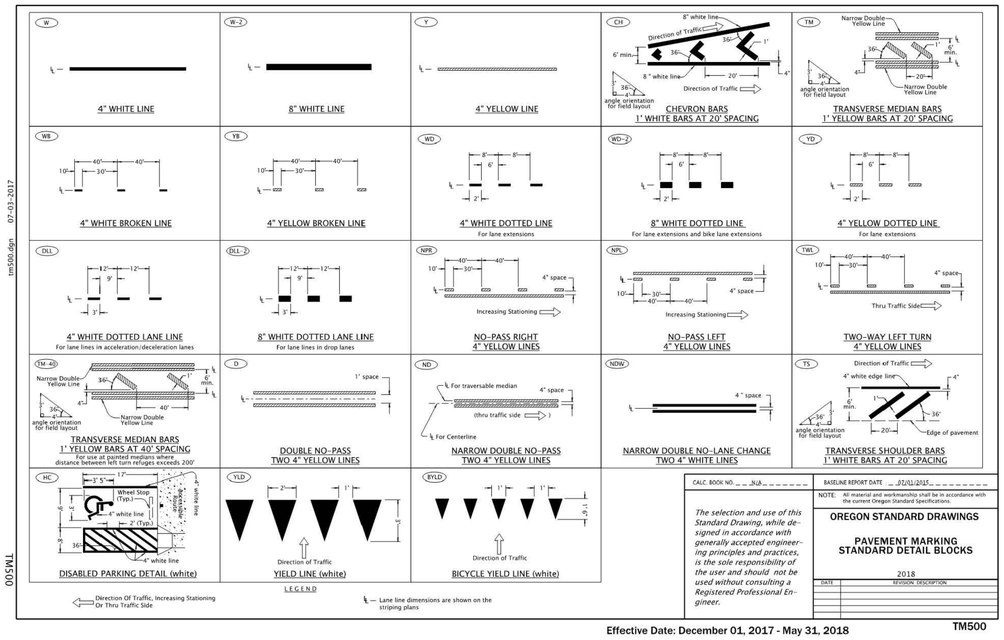
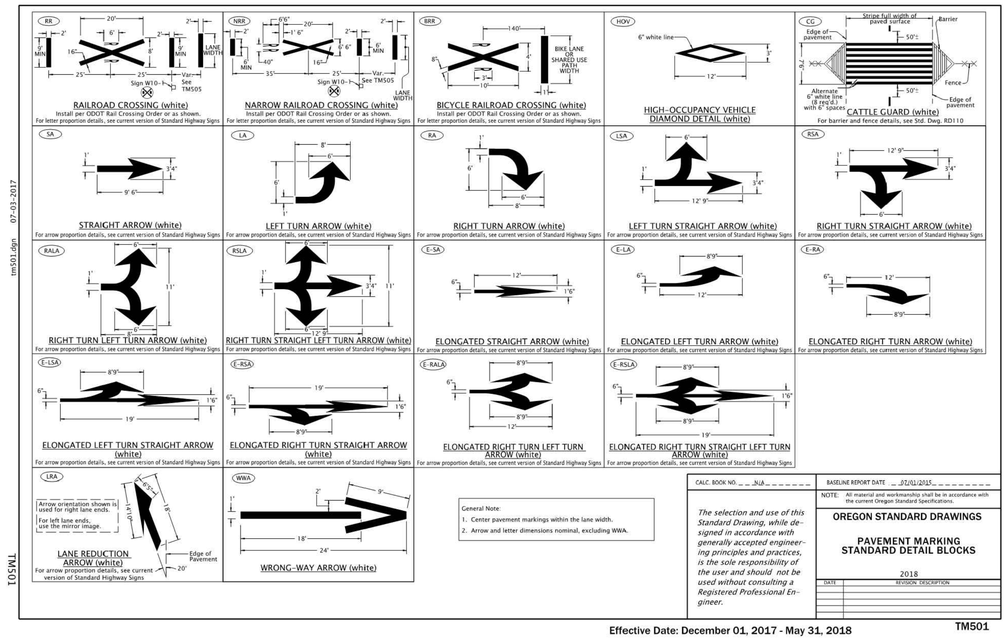


tm500.dgn 07-03-2017

TM500

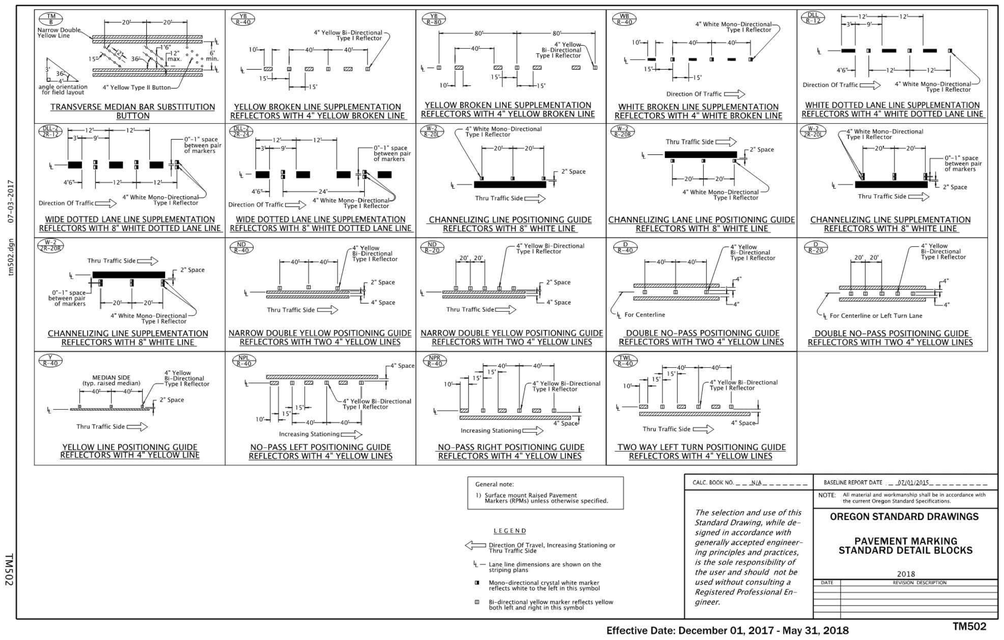
Effective Date: December 01, 2017 - May 31, 2018



tm501.dgn 07-03-2017

TM501

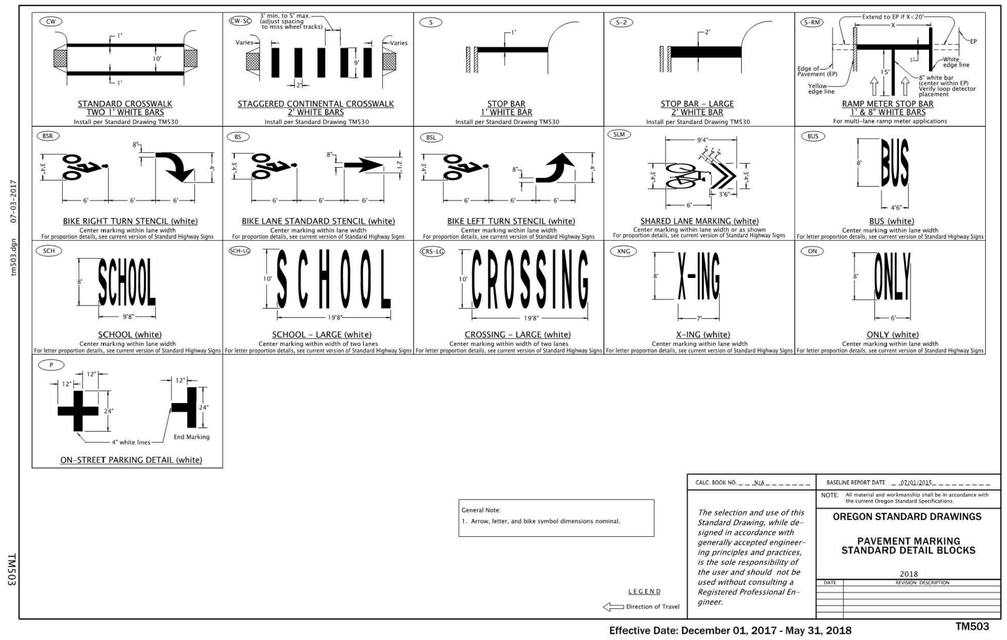
Effective Date: December 01, 2017 - May 31, 2018



tm502.dgn 07-03-2017

TM502

Effective Date: December 01, 2017 - May 31, 2018



tm503.dgn 07-03-2017

TM503

Effective Date: December 01, 2017 - May 31, 2018

CALC. BOOK NO. _ _ N/A _ _ _ _ _ _ _ _

BASELINE REPORT DATE _ 07/01/2015 _ _ _ _ _ _ _ _

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

PAVEMENT MARKING STANDARD DETAIL BLOCKS

2018

DATE	REVISION DESCRIPTION

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

STANDARD DETAILS

C9.13

4/5/2018
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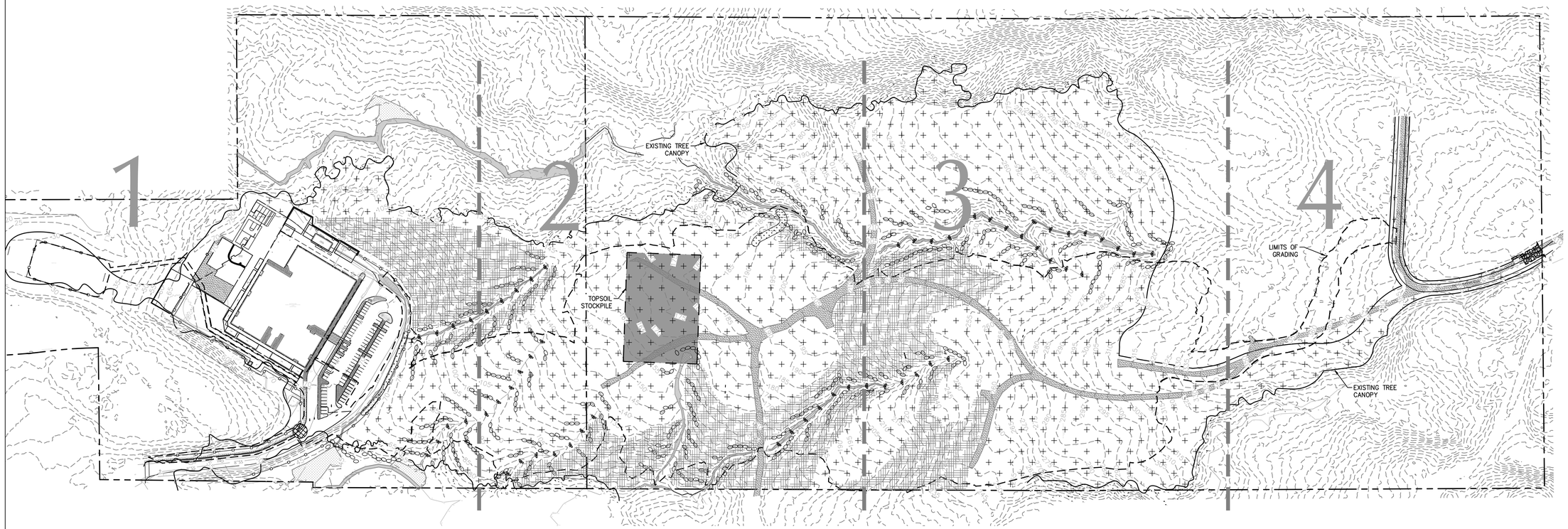

SHEET NOTES

1. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND PERMANENT VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
8. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

SHEET LEGEND

- PROPERTY LINE
- 49 — EX. CONTOUR MINOR
- 50 — EX. CONTOUR MAJOR
- 49 — PROP. CONTOUR MINOR
- 50 — PROP. CONTOUR MAJOR
- EXTENT OF GRADING
- VEGETATED BUFFER (EXTENT OF EROSION AND SEDIMENT CONTROL MEASURES
- COMPOST SOCK
- SEDIMENT CONTROL FENCE. (SHOWN OFFSET FOR CLARITY).
- INLET PROTECTION
- CHECK DAM IN DITCHES AND SWALES
- CONSTRUCTION ENTRANCE
- HYDROSEED
- CHIP MULCH
- EXISTING STREAM
- EXISTING WETLAND
- EXISTING LOGGING ROAD
- TOPSOIL STOCKPILE
- TIRE WASH

SCALE 1 INCH = 120 FEET
120 0 120 240

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

OVERALL CLEARING & DEMOLITON EROSION & SEDIMENT CONTROL PLAN

C10.10

4/5/2018
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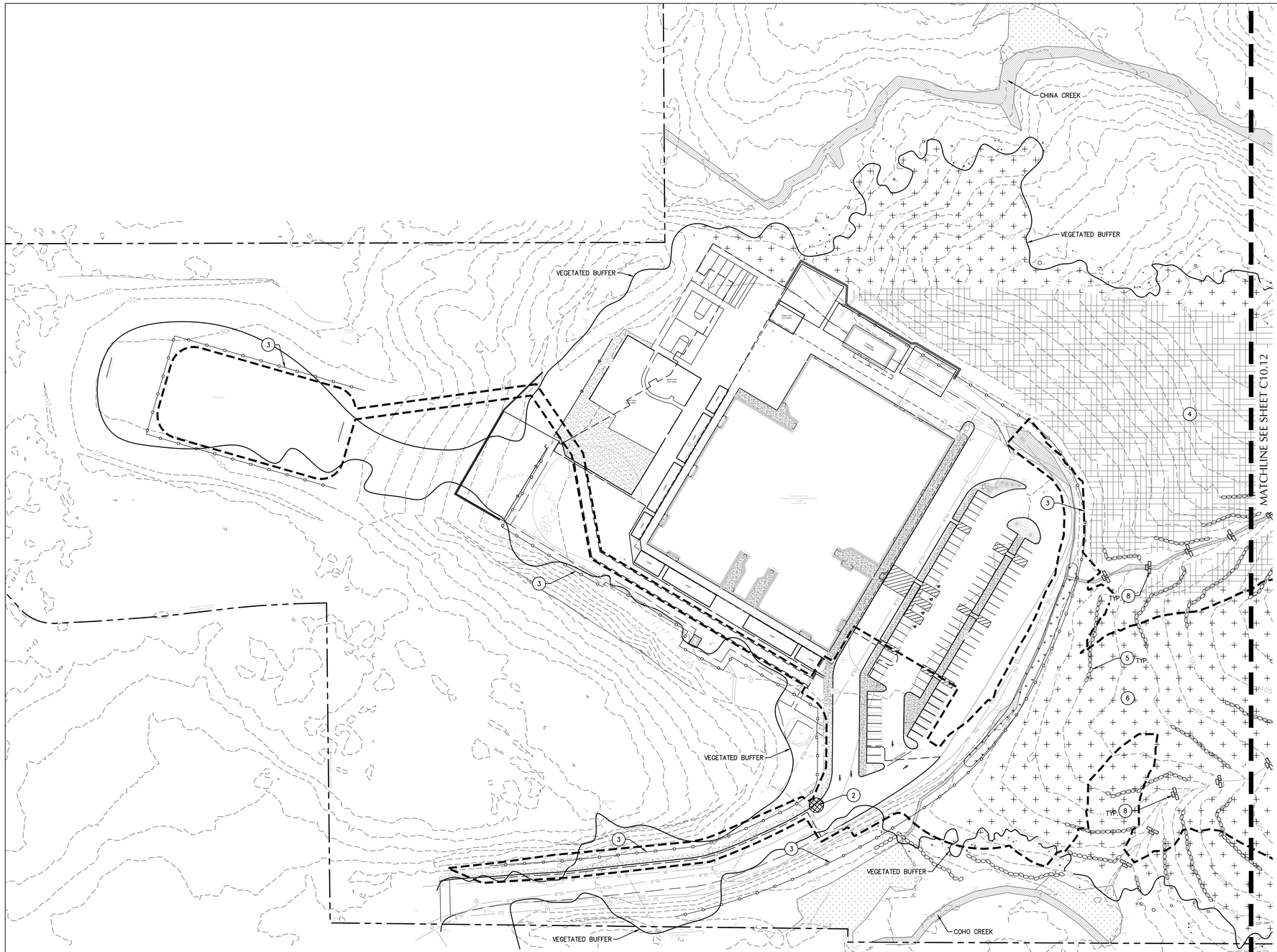

SHEET NOTES

1. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND PERMANENT VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
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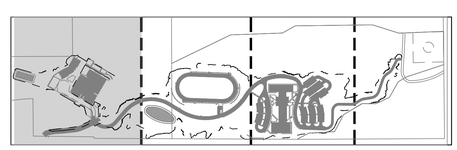
9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

(X) KEY NOTES

1 CONSTRUCT GRAVEL CONSTRUCTION ENTRANCE. — 12 (C10.31)
2 INSTALL INLET SEDIMENT PROTECTION. — 10 (C10.31)
3 INSTALL SEDIMENT FENCE. — 7 (C10.31), 8 (C10.31)
4 INSTALL COMPOST BLANKET ON SLOPES OVER 25%. — 2 (C10.31)
5 INSTALL COMPOST SOCK SEDIMENT BARRIER. — 5 (C10.31)
6 PROVIDE CHIP MULCH ON DISTURBED SURFACE ON SLOPES LESS THAN 25%.
7 INSTALL TEMPORARY WHEEL WASH. — 1 (C10.31)
8 INSTALL CHECK DAM. — 3 (C10.31), 4 (C10.31)

SHEET LEGEND

- PROPERTY LINE
- EX. CONTOUR MINOR
- EX. CONTOUR MAJOR
- PROP. CONTOUR MINOR
- PROP. CONTOUR MAJOR
- EXTENT OF GRADING
- VEGETATED BUFFER (EXTENT OF EROSION AND SEDIMENT CONTROL MEASURES
- COMPOST SOCK
- SEDIMENT CONTROL FENCE. (SHOWN OFFSET FOR CLARITY).
- INLET PROTECTION
- CHECK DAM IN DITCHES AND SWALES
- CONSTRUCTION ENTRANCE
- HYDROSEED
- CHIP MULCH
- EXISTING STREAM
- EXISTING WETLAND
- EXISTING LOGGING ROAD
- TOPSOIL STOCKPILE
- TIRE WASH



KEY MAP

SCALE 1 INCH = 50 FEET
50 0 50 100

BRIC ARCHITECTURE, INC.
1233 NW NORTHRUP STREET, SUITE 100
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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

CLEARING & DEMOLITON EROSION & SEDIMENT CONTROL PLAN

C10.11

4/5/2018
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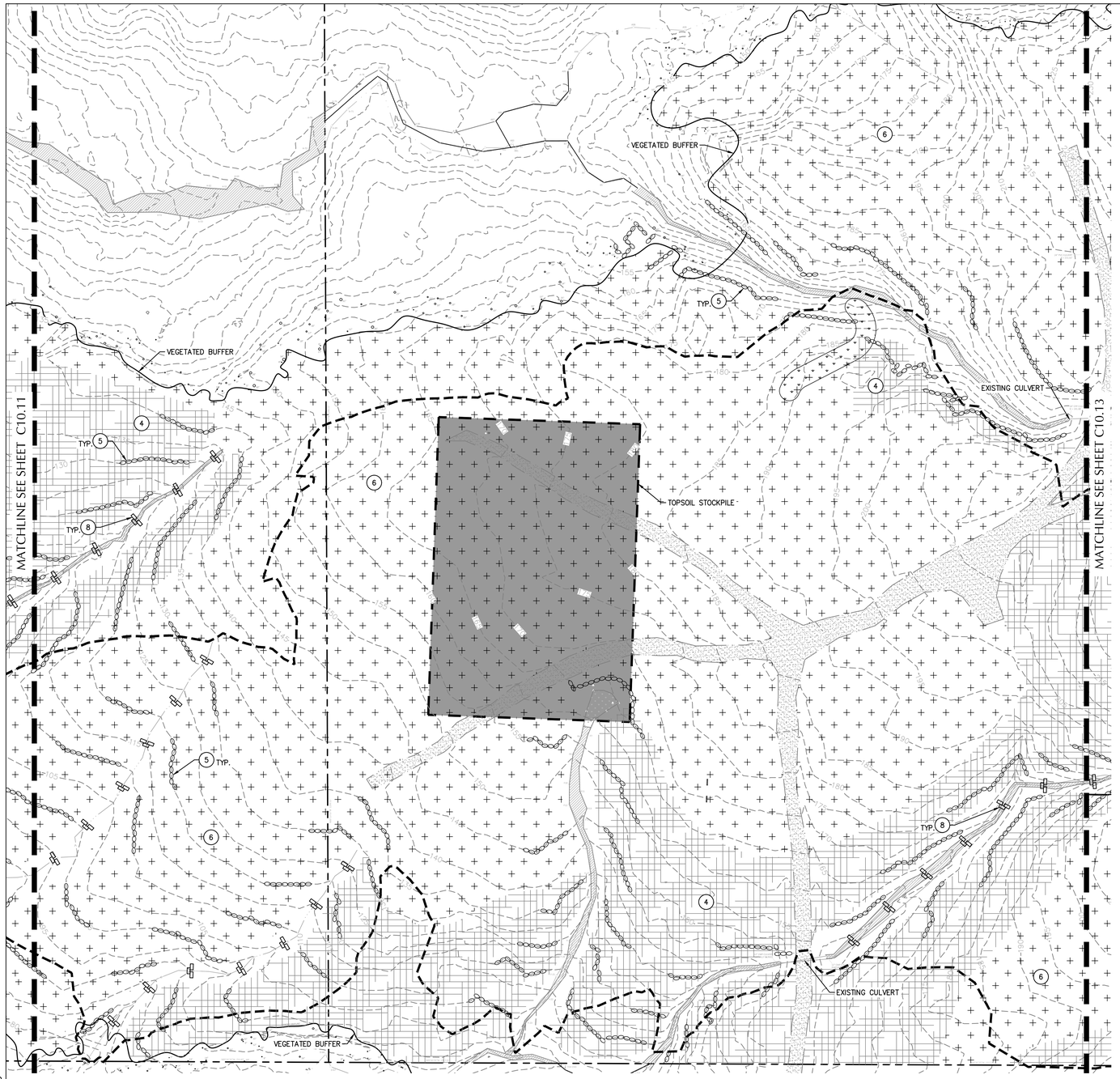

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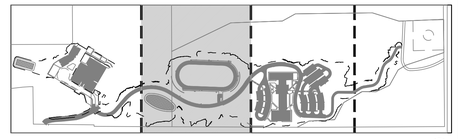

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phase	Bid Package 1
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CLEARING & DEMOLITON EROSION & SEDIMENT CONTROL PLAN

C10.12

4/5/2018
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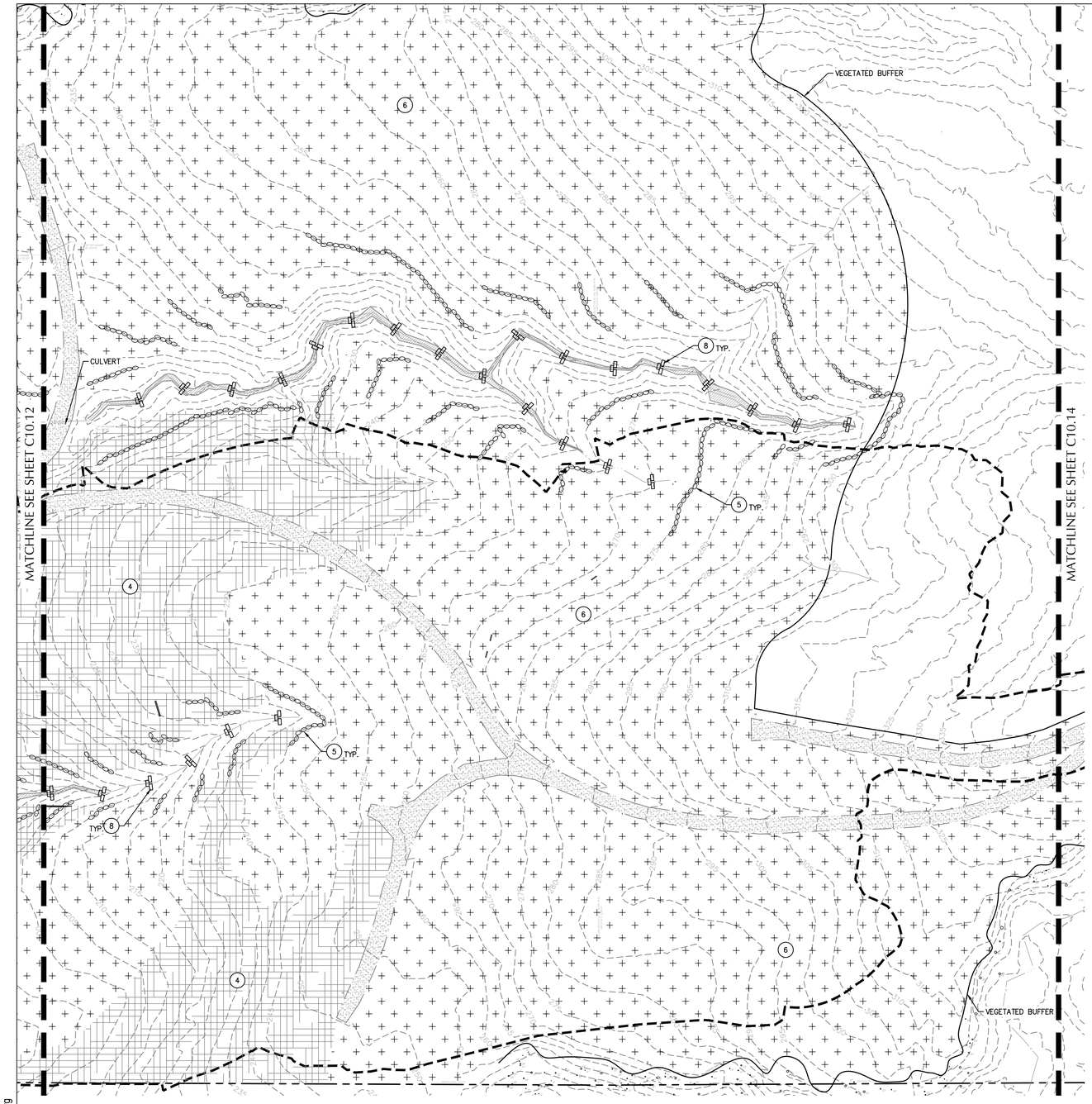

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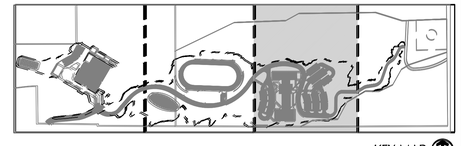

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CLEARING & DEMOLITON EROSION & SEDIMENT CONTROL PLAN

C10.13

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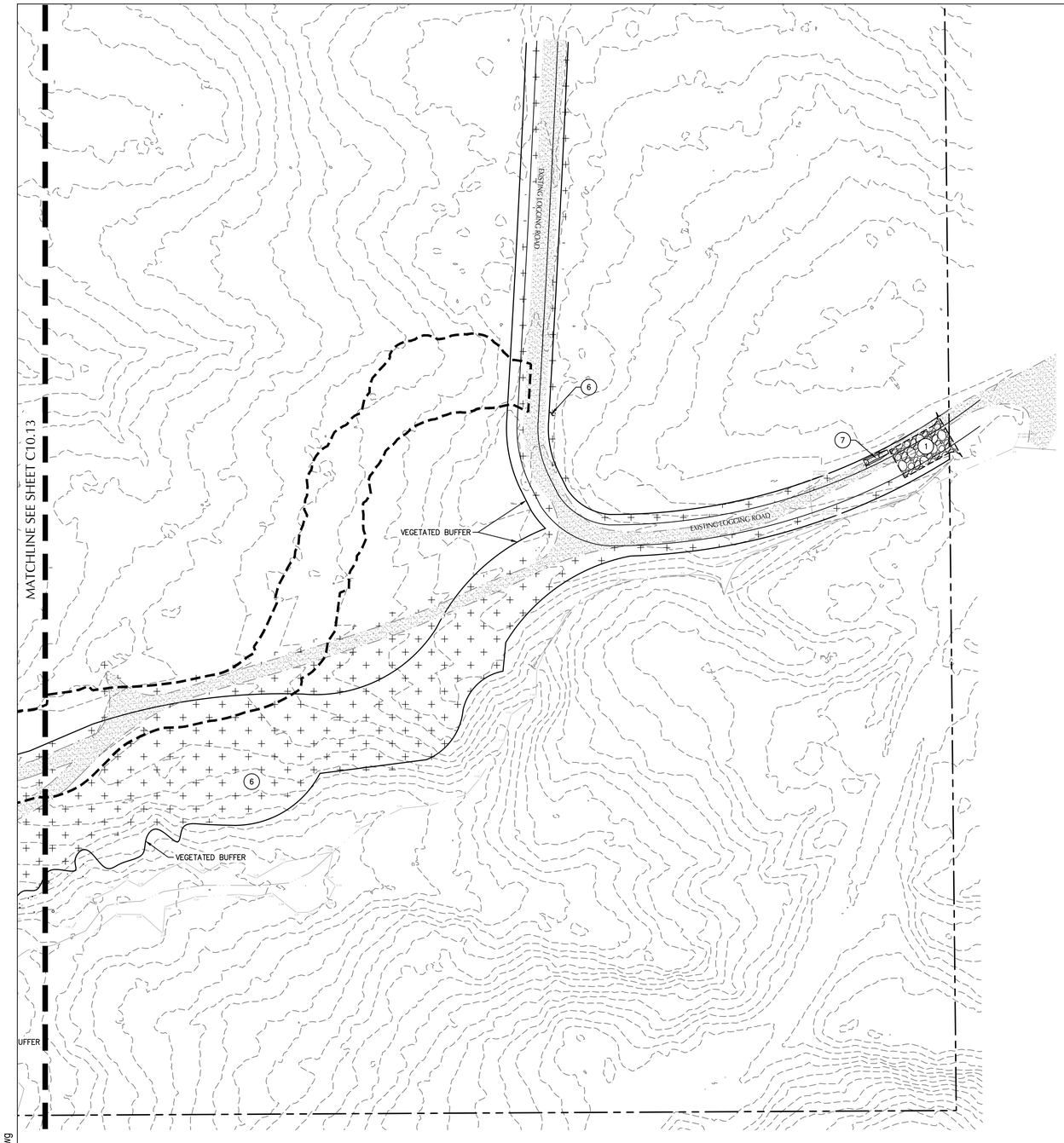

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phase	Bid Package 1
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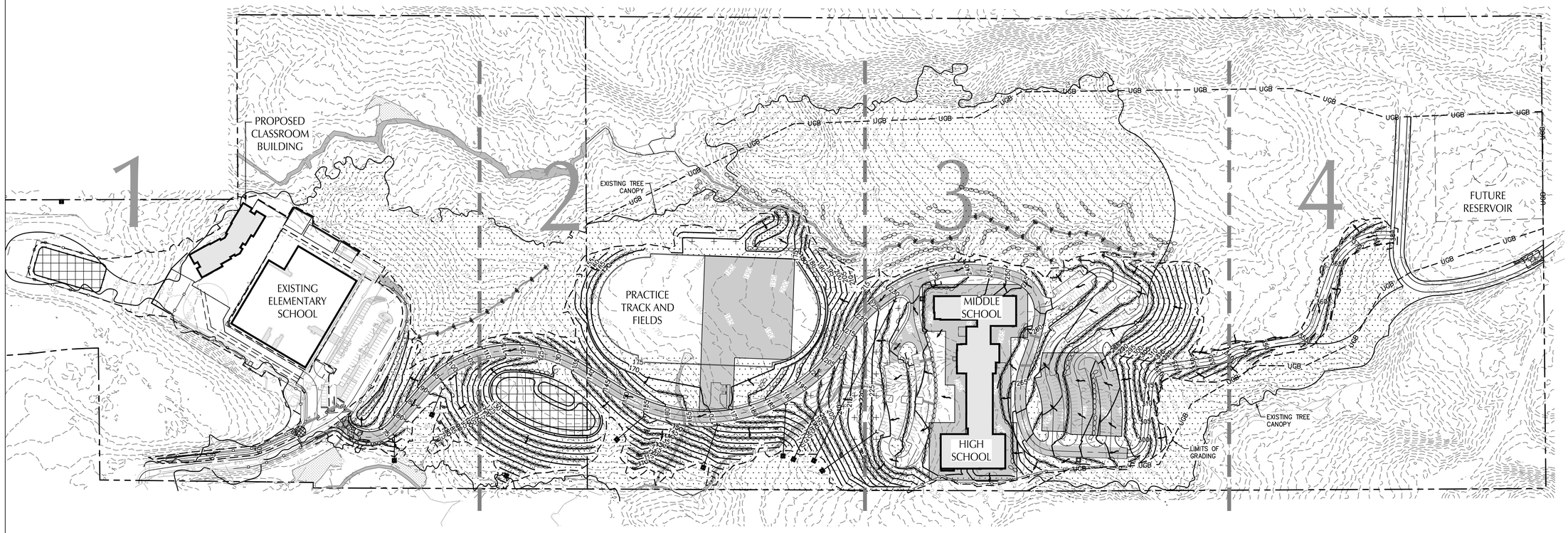

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10. SURFACE ROUGHENING MEASURES SHALL BE UTILIZED FOR ALL CONSTRUCTED SLOPES OVER 25% PRIOR TO INSTALLATION OF OTHER EROSION AND SEDIMENT CONTROL MEASURES. (6 / 10.12)
11. PLASTIC SHEETING MAY BE USED AS TEMPORARY SOIL COVER MEASURE ON SLOPES OR SOIL STOCKPILES. (1 / 10.11)
12. CONTRACTOR MAY USE A TEMPORARY HAUL ROAD ONSITE, ALIGNMENT AS NEEDED. (2 / 10.11)
13. PERMANENT SEED MIXTURES SHALL BE APPLIED TO ALL FINISHED SURFACE GRADING PER LANDSCAPE REQUIREMENTS.

SHEET LEGEND

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- TEMPORARY ROCK
- CHIP MULCH
- TEMPORARY EROSION CONTROL SEEDING AREA
- EXISTING STREAM
- EXISTING WETLAND
- EROSION CONTROL BLANKET
- TIRE WASH
- CONCRETE WASHOUT
- DRAINAGE FLOW ARROW
- PIPE SLOPE DRAIN

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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

OVERALL ROUGH GRADING EROSION AND SEDIMENT CONTROL PLAN

C10.20

4/5/2018
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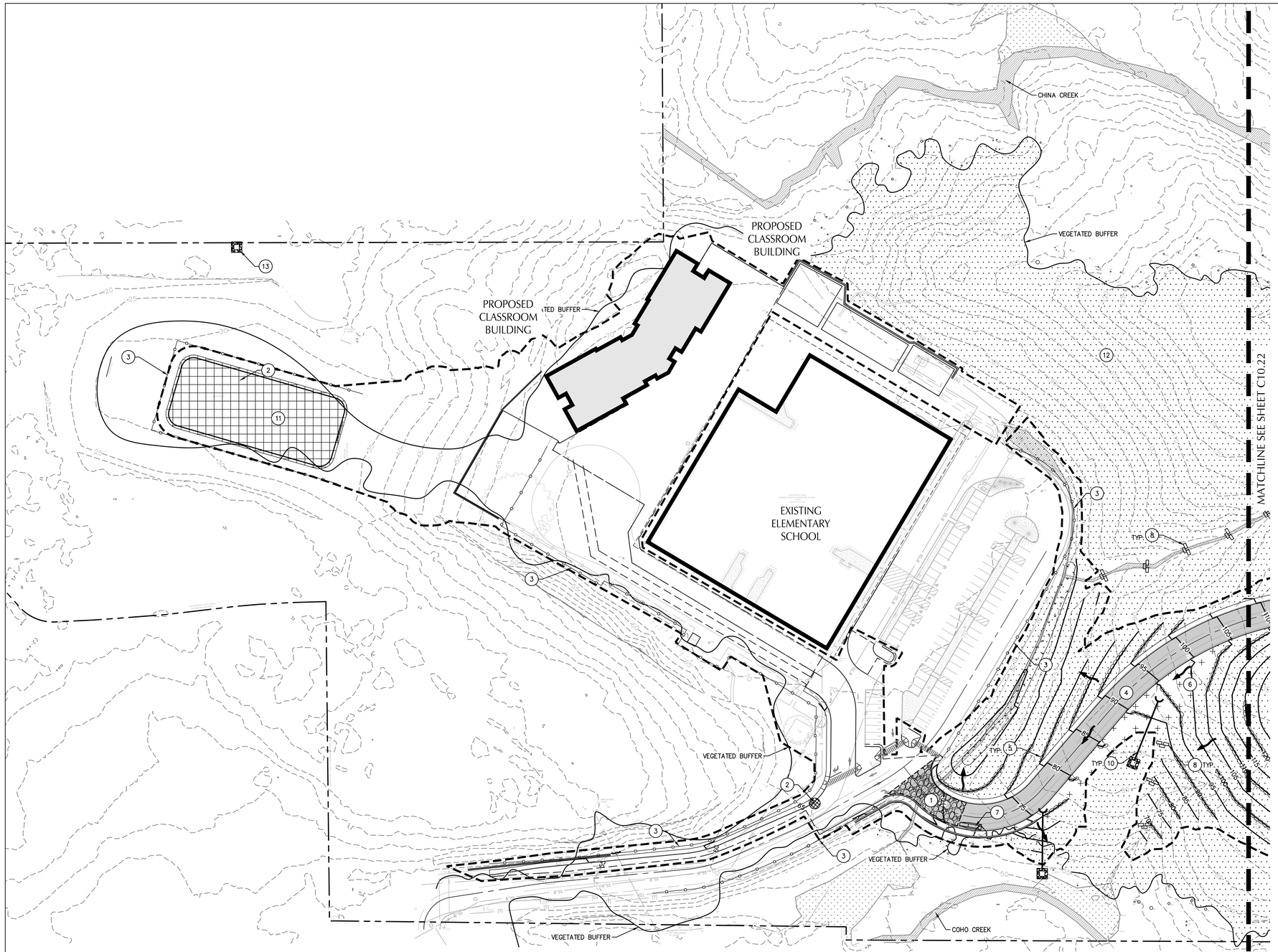

KEY NOTES

1. CONSTRUCT GRAVEL CONSTRUCTION ENTRANCE. (12 / C10.30)
2. INSTALL INLET SEDIMENT PROTECTION. (10 / C10.30) (11 / C10.30)
3. INSTALL SEDIMENT FENCE. (7 / C10.30) (8 / C10.30)
4. INSTALL TEMPORARY ROCK PER CONTRACTOR'S REQUIREMENTS.
5. INSTALL COMPOST SOCK SEDIMENT BARRIER. (5 / C10.30)
6. PROVIDE CHIP MULCH ON DISTURBED SURFACE ON SLOPES.
7. INSTALL TEMPORARY WHEEL WASH. (1 / C10.30)
8. INSTALL CHECK DAM. (3 / C10.30) (4 / C10.30)
9. INSTALL CONCRETE WASHOUT. (9 / C10.30)
10. INSTALL PIPE SLOPE DRAIN. (3 / C10.31) (4 / C10.31)
11. INSTALL EROSION CONTROL BLANKET IN STORMWATER FACILITIES. (5 / C10.31) (6 / C10.31)
12. INSTALL TEMPORARY EROSION CONTROL SEEDING. PLANT WITH ANNUAL RYEGRASS.
13. PIPE OUTFALL (4 / C10.31)

SHEET LEGEND

- PROPERTY LINE
- 49 EX. CONTOUR MINOR
- 50 EX. CONTOUR MAJOR
- 49 PROP. CONTOUR MINOR
- 50 PROP. CONTOUR MAJOR
- EXTENT OF DISTURBANCE
- VEGETATED BUFFER
- COMPOST SOCK
- SEDIMENT CONTROL FENCE. (SHOWN OFFSET FOR CLARITY).
- INLET PROTECTION
- CHECK DAM IN DITCHES AND SWALES
- CONSTRUCTION ENTRANCE
- TEMPORARY ROCK
- CHIP MULCH
- TEMPORARY EROSION CONTROL SEEDING AREA
- EXISTING STREAM
- EXISTING WETLAND
- EROSION CONTROL BLANKET
- TIRE WASH
- CONCRETE WASHOUT
- DRAINAGE FLOW ARROW
- PIPE SLOPE DRAIN

SHEET NOTES

1. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND PERMANENT VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
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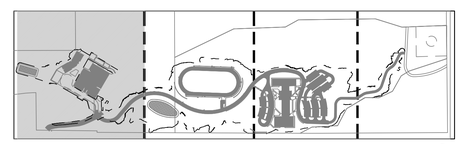
13. PERMANENT SEED MIXTURES SHALL BE APPLIED TO ALL FINISHED SURFACE GRADING PER LANDSCAPE REQUIREMENTS.



KEY MAP

SCALE 1 INCH = 50 FEET
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revisions	
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ROUGH GRADING EROSION AND SEDIMENT CONTROL PLAN

C10.21

4/5/2018
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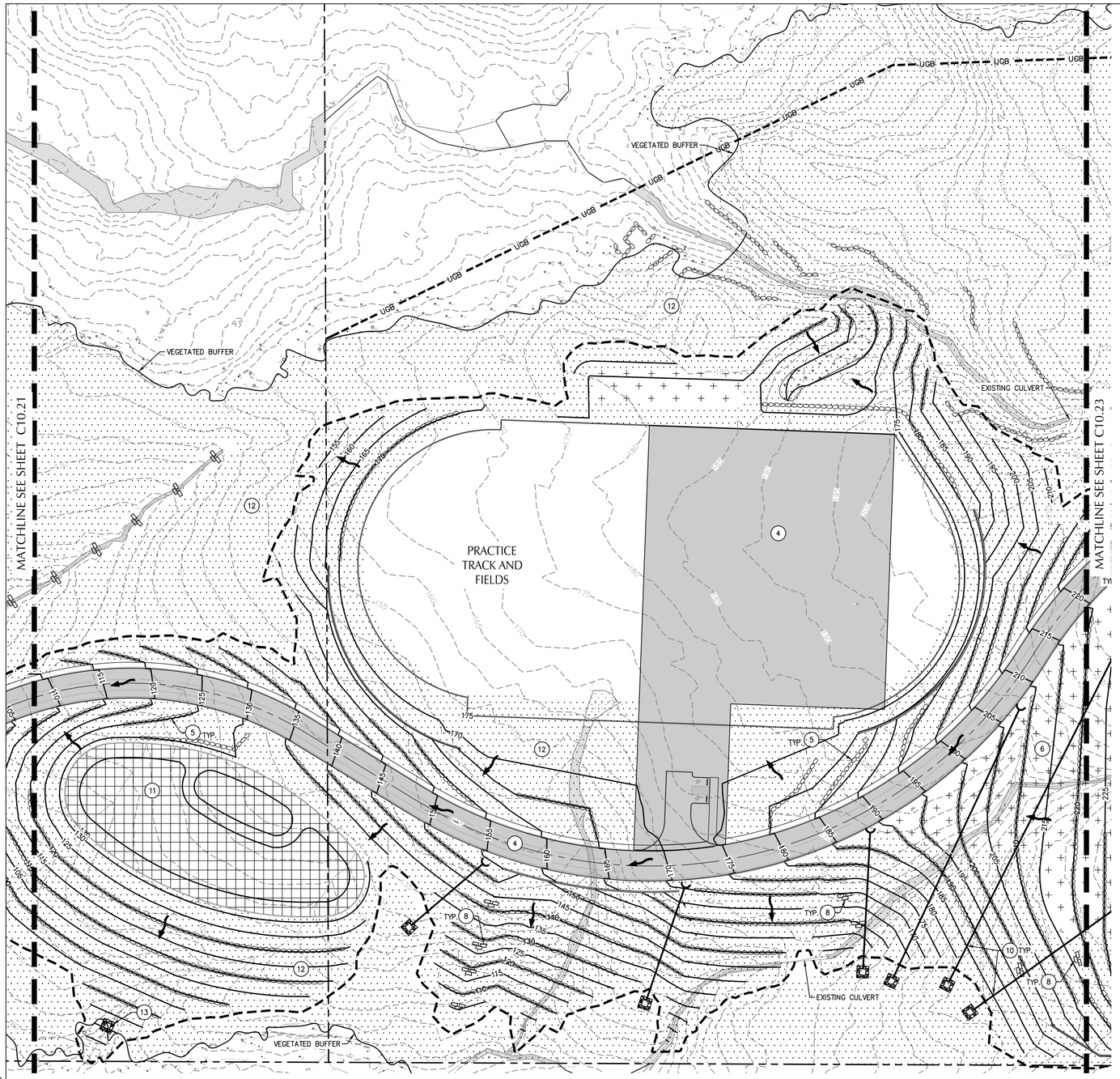

SHEET LEGEND

- PROPERTY LINE
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- EXTENT OF DISTURBANCE
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- EXISTING WETLAND
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- CONCRETE WASHOUT
- DRAINAGE FLOW ARROW
- PIPE SLOPE DRAIN

SHEET NOTES

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(X) KEY NOTES

1. CONSTRUCT GRAVEL CONSTRUCTION ENTRANCE. (17 / C10.32)
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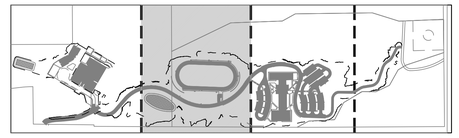

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phase	Bid Package 1
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revisions	
project #	17007

ROUGH GRADING EROSION AND SEDIMENT CONTROL PLAN

C10.22

4/5/2018
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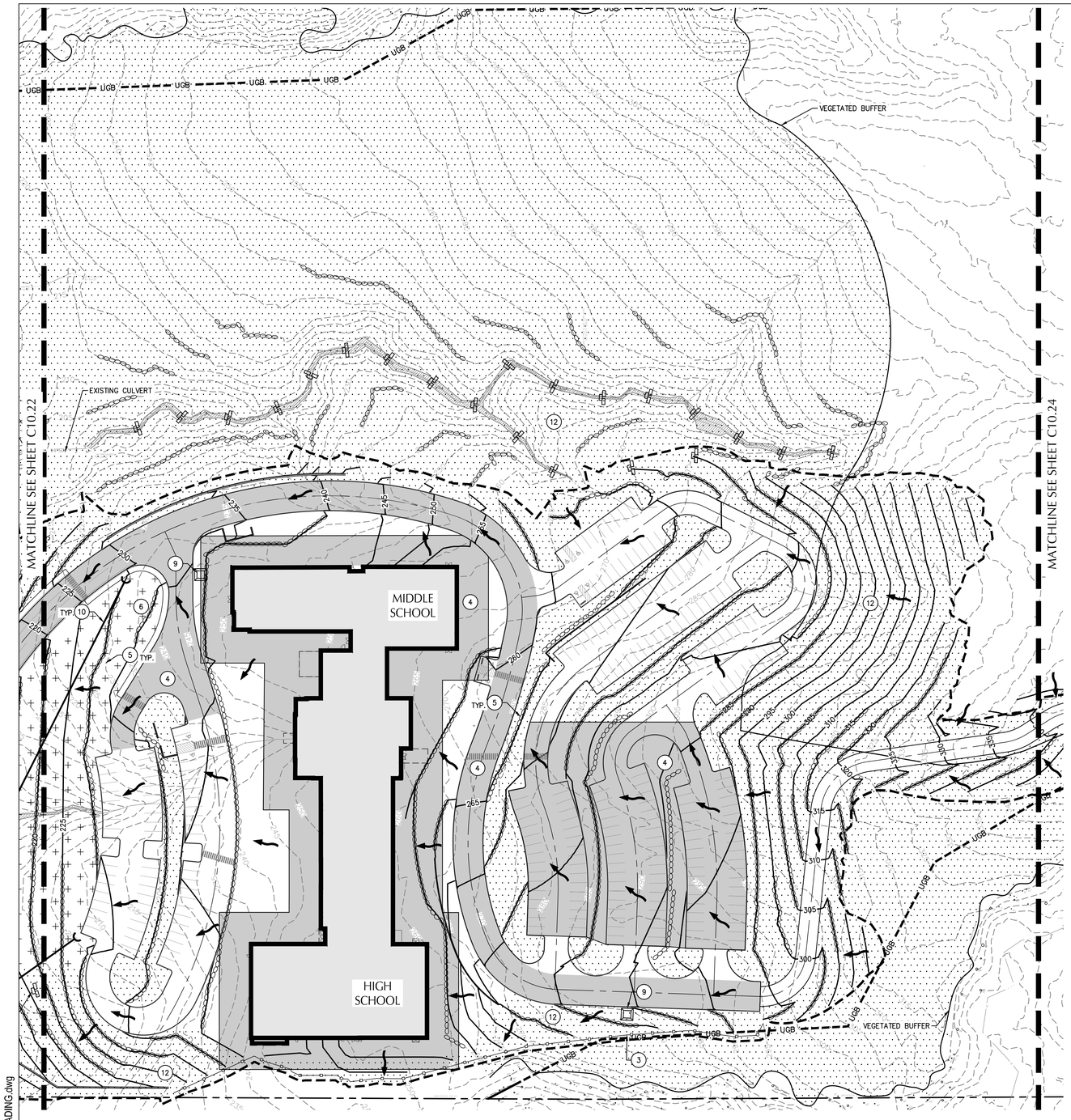

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KEY NOTES

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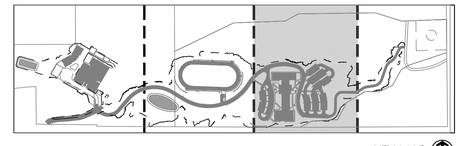

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ROUGH GRADING EROSION AND SEDIMENT CONTROL PLAN

C10.23

4/5/2018
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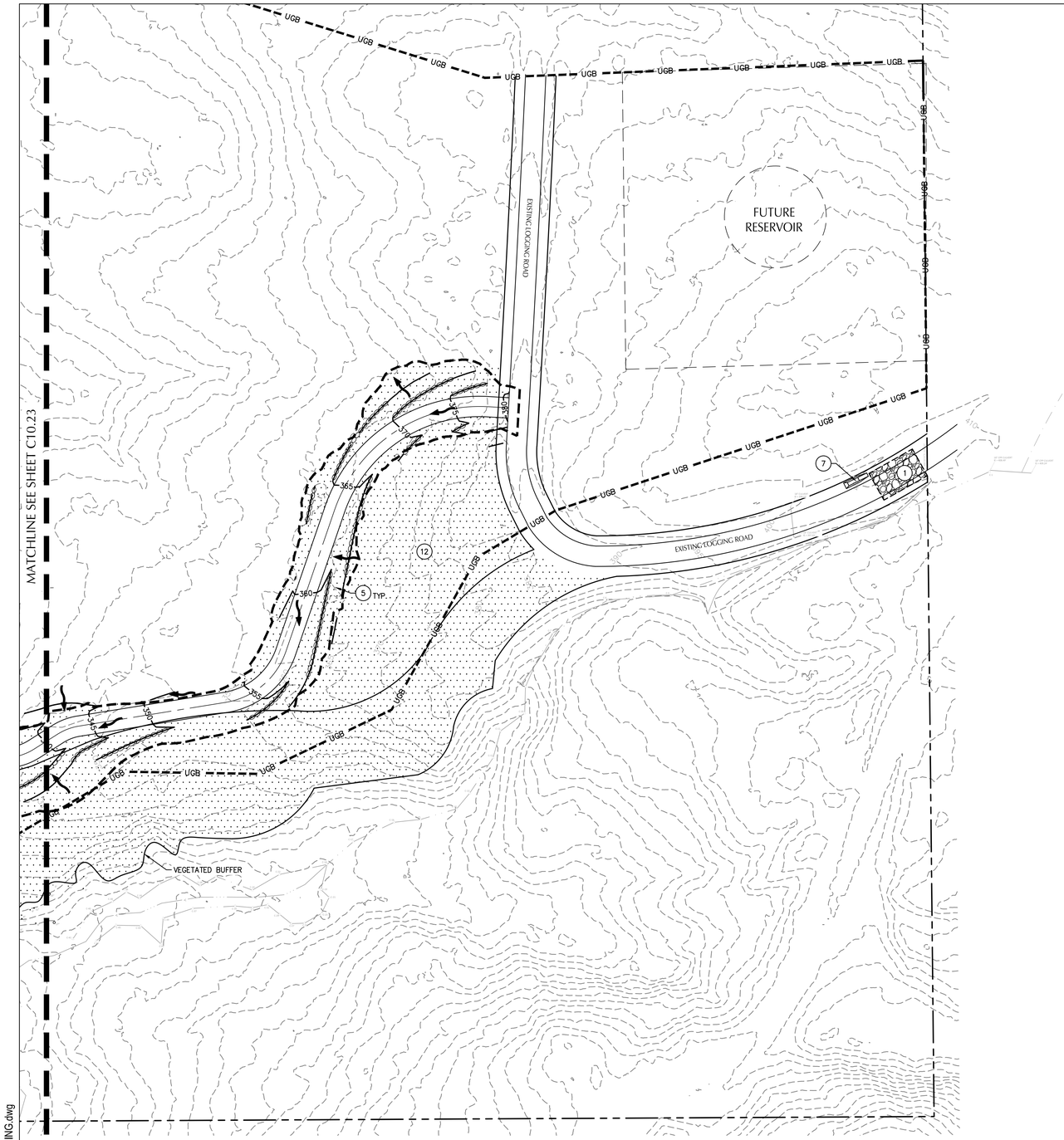

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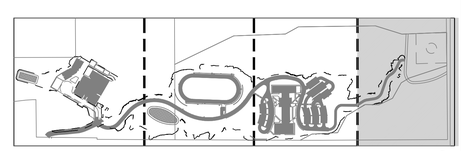

KEY MAP

SCALE 1 INCH = 50 FEET
50 0 50 100

BRIC ARCHITECTURE, INC.
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DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

ROUGH GRADING EROSION AND SEDIMENT CONTROL PLAN

C10.24

4/5/2018
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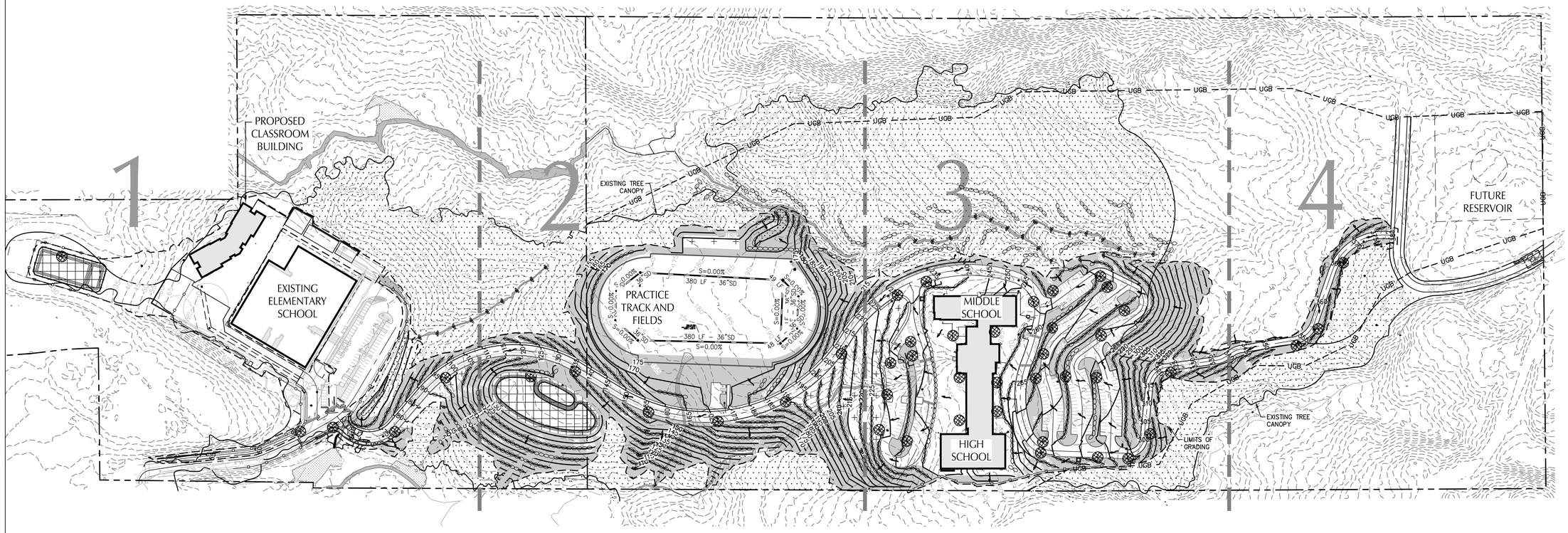

SHEET NOTES

1. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND PERMANENT VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
8. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
10. SURFACE ROUGHENING MEASURES SHALL BE UTILIZED FOR ALL CONSTRUCTED SLOPES OVER 25% PRIOR TO INSTALLATION OF OTHER EROSION AND SEDIMENT CONTROL MEASURES. (6 / C10.31)
11. PLASTIC SHEETING MAY BE USED AS TEMPORARY SOIL COVER MEASURE ON SLOPES OR SOIL STOCKPILES. (1 / C10.31)
12. CONTRACTOR MAY USE A TEMPORARY HAUL ROAD ONSITE, ALIGNMENT AS NEEDED. (7 / C10.31)
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SHEET LEGEND

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- PROP. CONTOUR MAJOR
- EXTENT OF DISTURBANCE
- VEGETATED BUFFER
- COMPOST SOCK
- SEDIMENT CONTROL FENCE. (SHOWN OFFSET FOR CLARITY).
- INLET PROTECTION
- CHECK DAM IN DITCHES AND SWALES
- CONSTRUCTION ENTRANCE
- PERMANENT SEEDING – REFERENCE LANDSCAPE PLANS FOR SEEDING MIXTURE
- CHIP MULCH
- TEMPORARY EROSION CONTROL SEEDING AREA
- EXISTING STREAM
- EXISTING WETLAND
- EROSION CONTROL BLANKET
- TIRE WASH
- CONCRETE WASHOUT
- DRAINAGE FLOW ARROW

SCALE 1 INCH = 120 FEET
120 0 120 240

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

OVERALL FINAL EROSION AND SEDIMENT CONTROL PLAN

C10.30

4/5/2018
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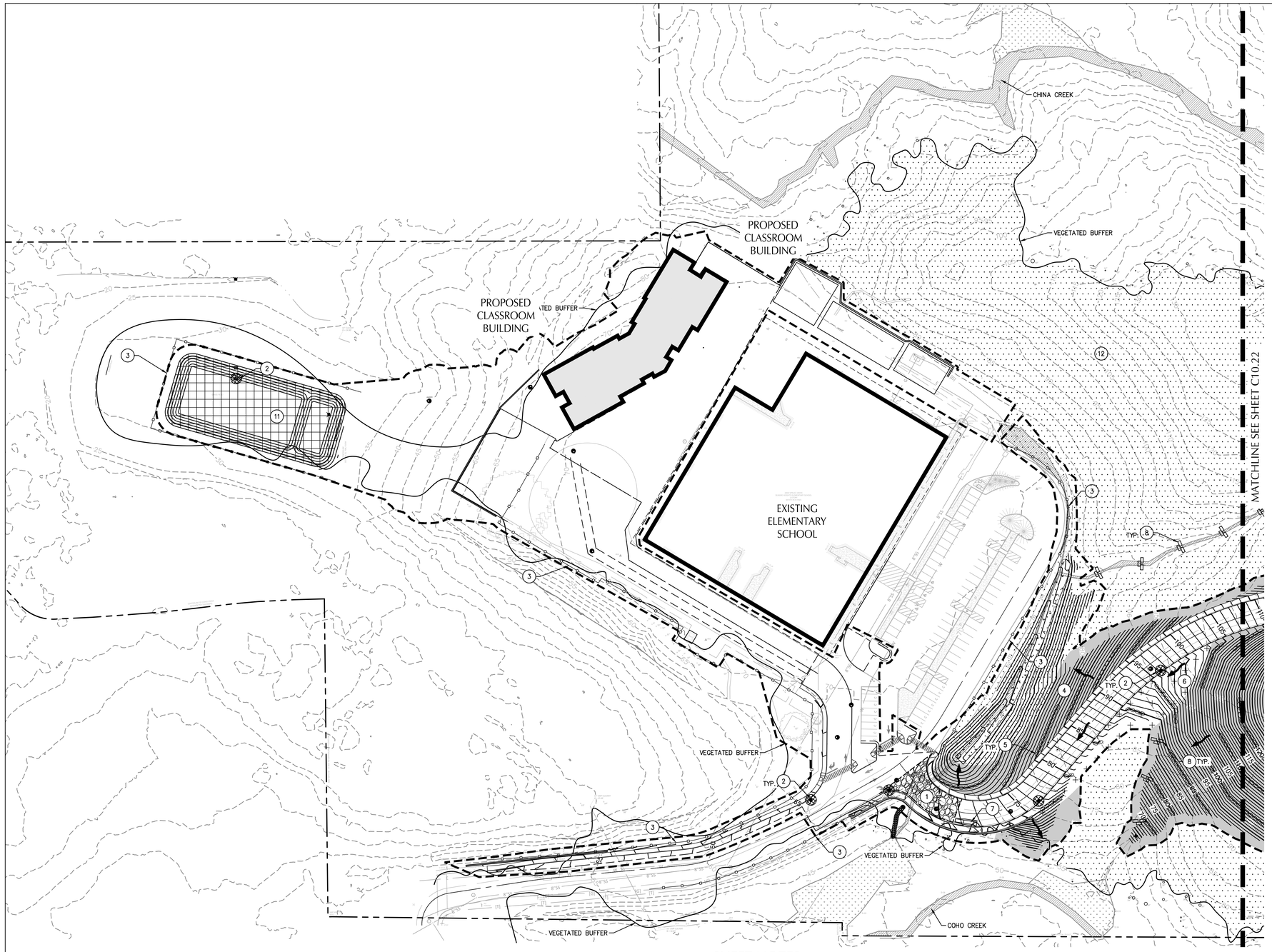

KEY NOTES

1. CONSTRUCT GRAVEL CONSTRUCTION ENTRANCE. (12 / C10.32)
2. INSTALL INLET SEDIMENT PROTECTION. (10 / C10.32) (11 / C10.32)
3. INSTALL SEDIMENT FENCE. (7 / C10.32) (8 / C10.32)
4. INSTALL PERMANENT SEEDING ON SLOPES. SEE LANDSCAPE PLANS FOR SEEDING MIXTURE.
5. INSTALL COMPOST SOCK SEDIMENT BARRIER. (5 / C10.32)
6. PROVIDE CHIP MULCH ON DISTURBED SURFACE ON SLOPES.
7. INSTALL TEMPORARY WHEEL WASH. (1 / C10.32)
8. INSTALL CHECK DAM. (3 / C10.32) (4 / C10.32)
9. INSTALL CONCRETE WASHOUT. (9 / C10.32)
10. INSTALL PIPE SLOPE DRAIN. (3 / C10.31) (4 / C10.31)
11. INSTALL EROSION CONTROL BLANKET IN STORMWATER FACILITIES. (5 / C10.31) (6 / C10.31)
12. INSTALL TEMPORARY EROSION CONTROL SEEDING. PLANT WITH ANNUAL RYEGRASS.
13. PIPE OUTFALL (4 / C10.31)

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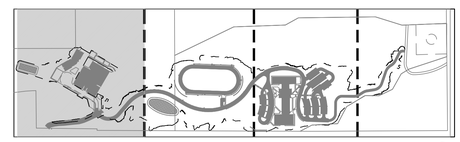

KEY MAP

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

FINAL EROSION AND SEDIMENT CONTROL PLAN

C10.31

4/5/2018
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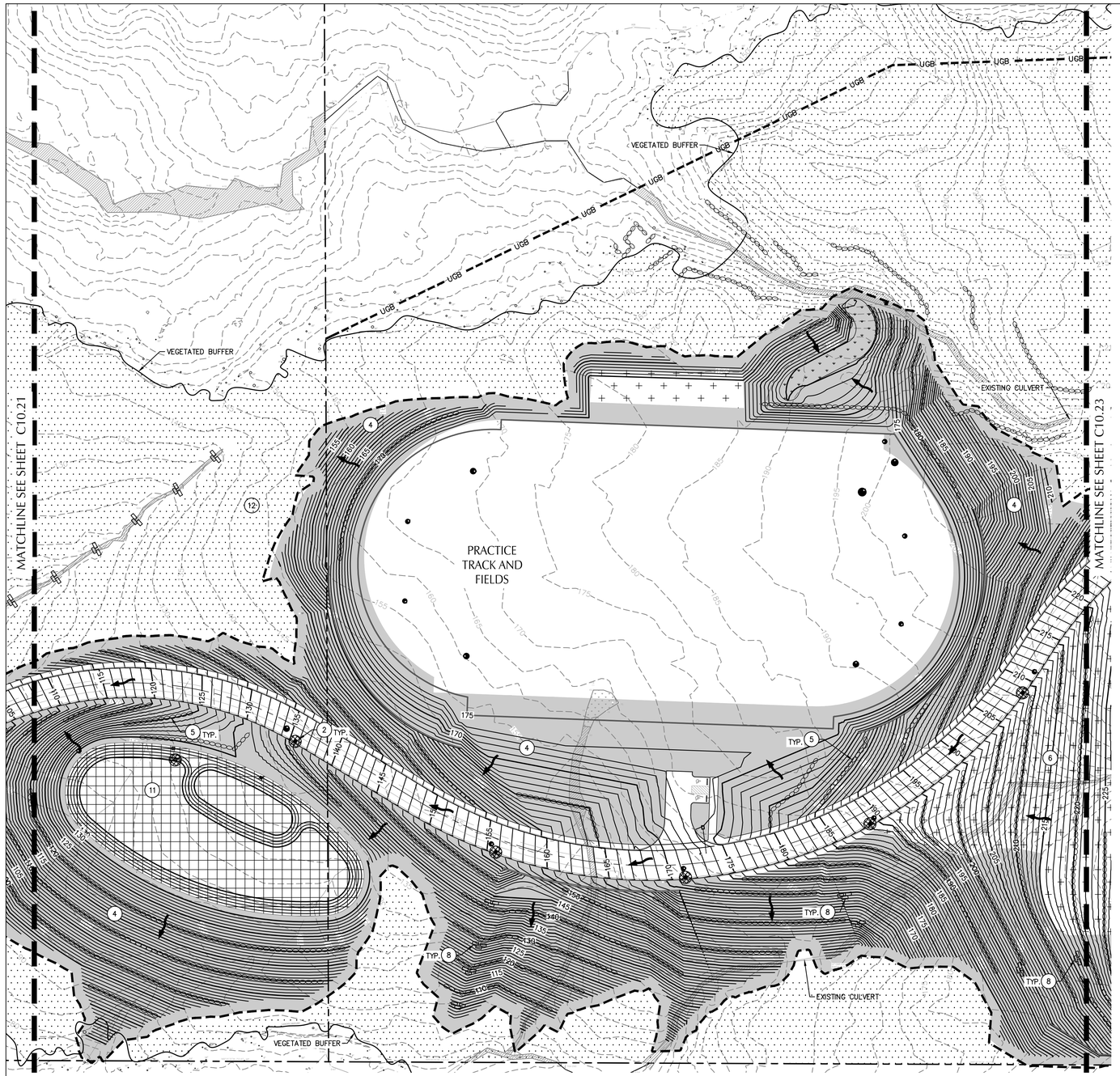

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KEY NOTES

1. CONSTRUCT GRAVEL CONSTRUCTION ENTRANCE. (17 / 10.30)
2. INSTALL INLET SEDIMENT PROTECTION. (10 / 10.30) (11 / 10.30)
3. INSTALL SEDIMENT FENCE. (7 / 10.30) (8 / 10.30)
4. INSTALL PERMANENT SEEDING ON SLOPES. SEE LANDSCAPE PLANS FOR SEEDING MIXTURE.
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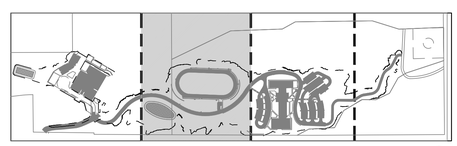

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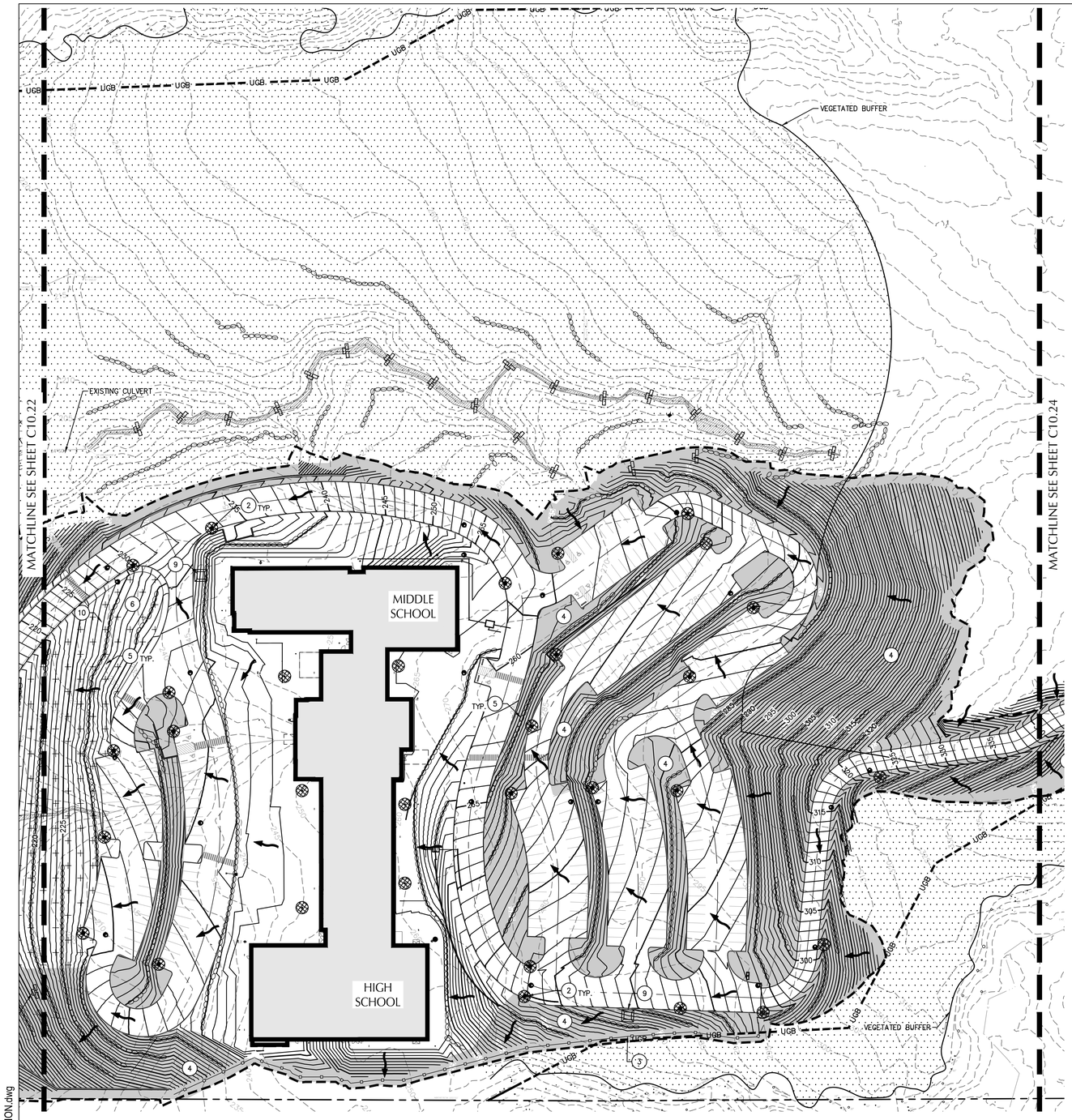
phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

FINAL EROSION AND SEDIMENT CONTROL PLAN

C10.32

4/5/2018
N:\cip\2016\1600377-Seaside-Schools\CAD\PLOT\1600377-C10.31-FINAL-EROSION.dwg



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KEY NOTES

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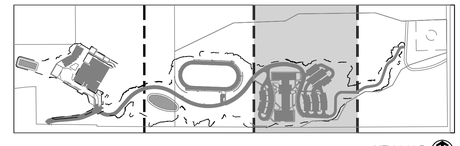

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

FINAL EROSION AND SEDIMENT CONTROL PLAN

C10.33

4/5/2018
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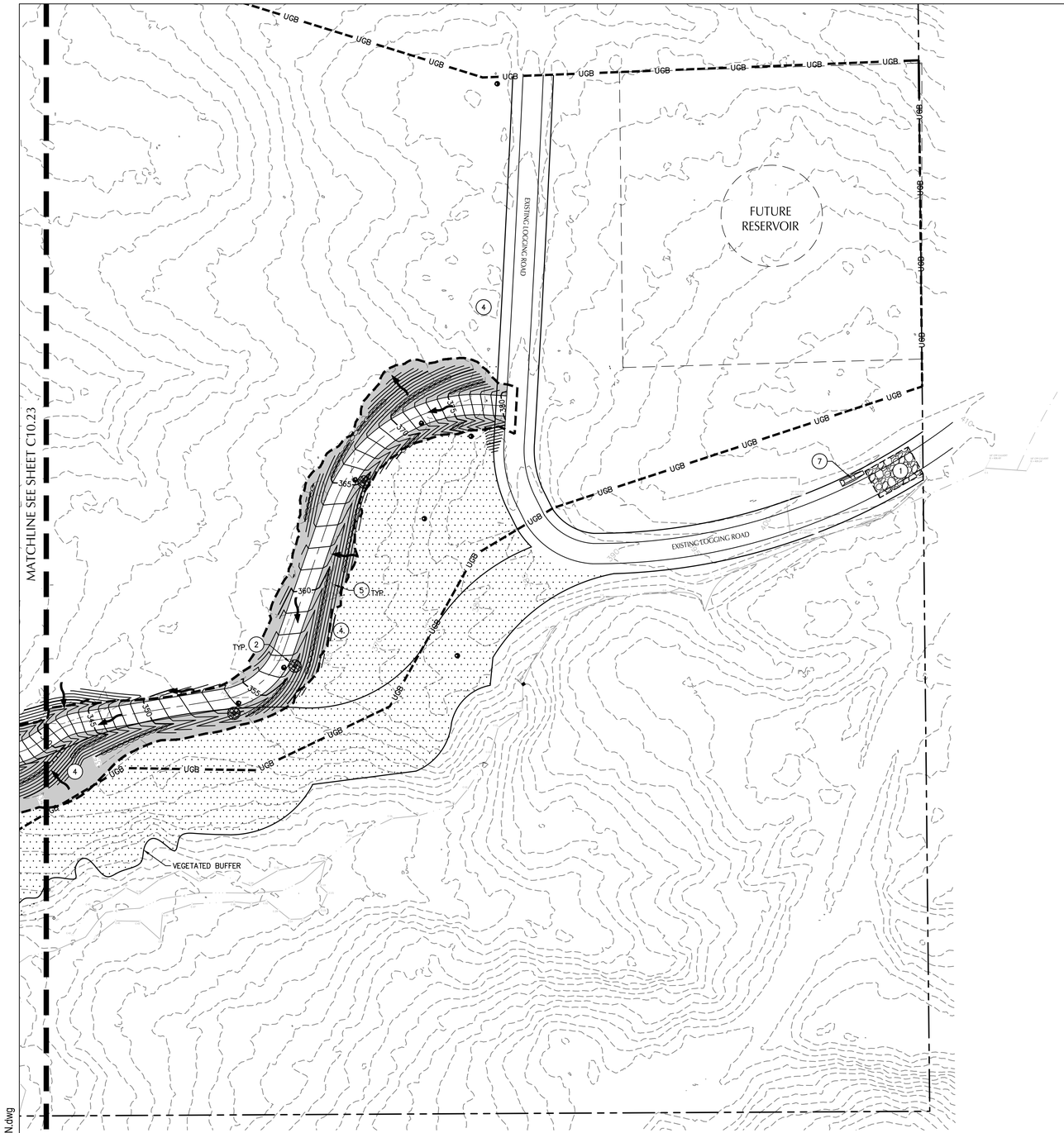
UGB
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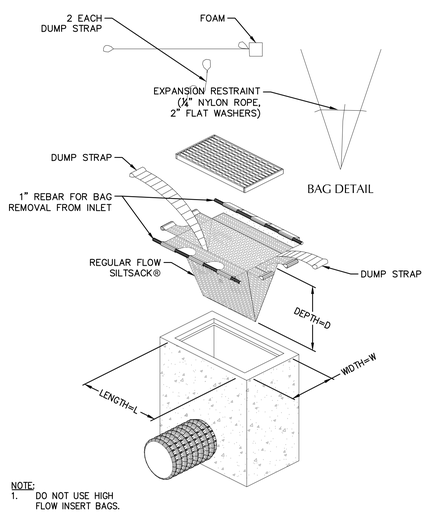
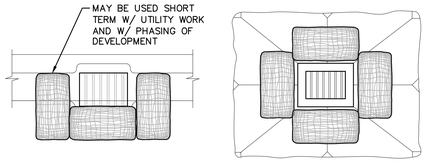


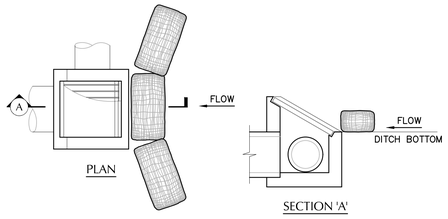
NOTE:
1. DO NOT USE HIGH FLOW INSERT BAGS.

10 INLET SEDIMENT PROTECTION
SCALE: NTS

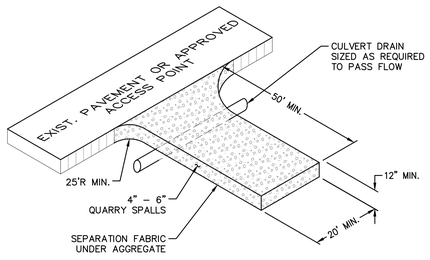


LAYOUT AT CATCH BASIN

LAYOUT AT AREA DRAIN

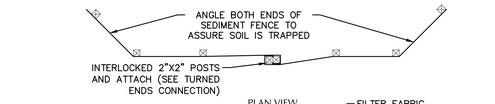


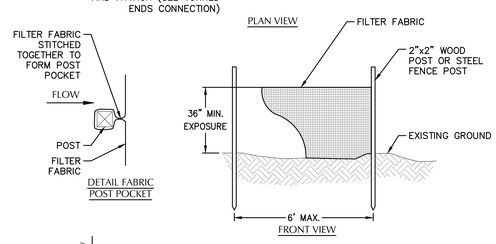
11 BIO-FILTER BAG AT INLETS
SCALE: NTS



NOTES:
1. THE ENTRANCE SHALL BE MAINTEINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. WHERE RUNOFF CONTAINING SEDIMENT LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
5. DIMENSIONS: 50' LONG BY 20' WIDE 3–6" CLEAN ROCK, GOVERNING AUTHORITY MAY REQUIRE GEOTEXTILE FABRIC TO PREVENT SUB–SOIL PUMPING.

12 CONSTRUCTION ENTRANCE
SCALE: NTS





NOTES:
1. THE FILTER FABRIC SHALL BE (36" MIN. WIDTH) PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6–INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST, OR OVERLAP 2"x2" POSTS AND ATTACH AS SHOWN ON DETAIL SHEET.
2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS WHERE FEASIBLE. THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6–FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24–INCHES.
3. THE FILTER FABRIC SHALL HAVE A MINIMUM VERTICAL BURIAL OF 6–INCHES. ALL EXCAVATED MATERIAL FROM FILTER FABRIC FENCE INSTALLATION, SHALL BE BACKFILLED AND COMPACTED, ALONG THE ENTIRE DISTURBED AREA.
4. STANDARD OR HEAVY DUTY FILTER FABRIC SHALL HAVE MANUFACTURED STITCHED LOOPS FOR 2"x2" POST INSTALLATION. STITCHED LOOPS WITH STAKES SHALL BE INSTALLED ON THE DOWN–HILL SIDE OF THE SLOPED AREA.
5. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UP–SLOPE AREA HAS BEEN PERMANENTLY PROTECTED AND STABILIZED.
6. FILTER FABRIC FENCES SHALL BE INSPECTED BY CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

7 SEDIMENT FENCE
SCALE: NTS

1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6–INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST, OR OVERLAP 2"x2" POSTS AND ATTACH AS SHOWN ON DETAIL SHEET.
2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS WHERE FEASIBLE. THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6–FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24–INCHES.
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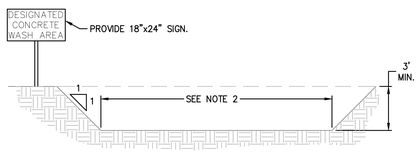
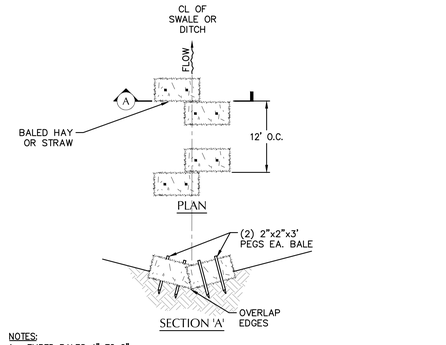
5. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY PROTECTED AND STABILIZED.
6. FILTER FABRIC FENCES SHALL BE INSPECTED BY CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

8 SEDIMENT FENCE NOTES
SCALE: NTS



NOTES:
1. INSTALL A CONCRETE WASH OUT PIT AND A VISIBLE SIGN STATING, "DESIGNATED CONCRETE WASH AREA." LOCATE THE WASH OUT IN A PLACE THAT WILL BE ACCESSIBLE TO CONCRETE TRUCKS SIZE TO THE PROJECT.
2. PROVIDE 3' X 3' MINIMUM WASHOUT AREA. INCREASES SIZE OR PROVIDE ADDITIONAL WASHOUTS AS REQUIRED TO ACCOMMODATE PROJECT CONDITIONS.
3. LOCATE WASHOUTS IN AREAS THAT WILL BE ACCESSIBLE TO CONCRETE TRUCKS.
4. FOR WASHOUTS LOCATED IN AREAS DESIGNATED TO RECEIVE HARDSCAPE, SOLIDS MY BE BURIED IN PLACE. FOR OTHER APPLICATIONS, REMOVE AND DISPOSE OF SOLIDS.

9 CONCRETE WASHOUT
SCALE: NTS

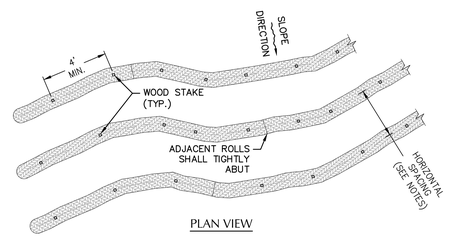


NOTES:
1. EMBED BALES 4" TO 6".
2. DRIVE STAKES MINIMUM 12" INTO GROUND SURFACE.

3 CHECK DAM
SCALE: NTS

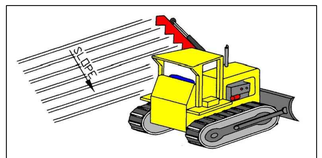
SPACING FOR CHECK DAMS			
DITCH GRADE	6 INCH	12 INCH	18 INCH
6%	NOT ALLOWED	16 FT O.C.	26 FT O.C.
5%	NOT ALLOWED	20 FT	30 FT
4%	NOT ALLOWED	26 FT	40 FT
3%	15 FT	33 FT	50 FT
2%	25 FT	50 FT	80 FT

4 CHECK DAM SPACING TABLE
SCALE: NTS

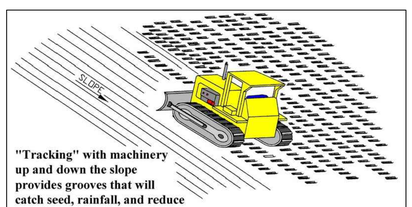


NOTES:
1. COMPOST SOCK TO BE PLACED ALONG SITE CONTOURS.
2. HORIZONTAL SPACING VARIES DEPENDING ON SOIL TYPE AND STEEPNESS, SEE PLAN (5' MIN – 25' MAX.)
3. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

5 COMPOST SOCK SEDIMENT BARRIER
SCALE: NTS

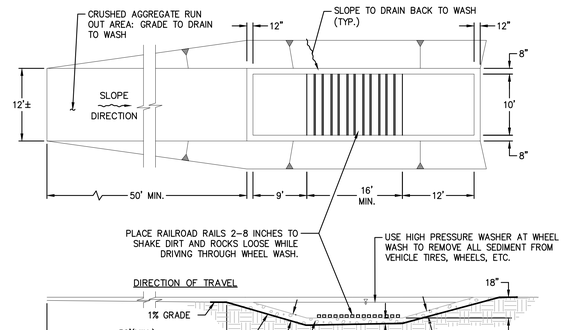


Note:
Groove by cutting serrations along the contour. Irregularities in the soil surface catch rainwater, seed, mulch and fertilizer.



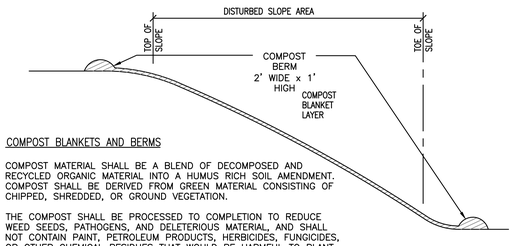
"Tracking" with machinery up and down the slope provides grooves that will catch seed, rainfall, and reduce runoff.

6 SURFACE ROUGHENING - CAT TRACKING
SCALE: NTS



NOTES:
1. CONTRACTOR SHALL PROVIDE SUMP PUMP, ABOVE GROUND PIPE, AND LARGE SIZE ORIFICE SPRINKLER TO SPREAD OVER EXISTING VEGETATION. SUBMIT DESIGNATED SPRINKLER AREA TO ENGINEER FOR APPROVAL.
2. CONTRACTOR TO MAINTAIN WHEELWASH DAILY BY REMOVING ACCUMULATED SEDIMENT AND SEDIMENT LADEN WATER FROM WHEEL WASH WHEN ACCUMULATION REACHES 50% OF VOLUME. THEN FILL WITH WATER TO MAINTAIN 12" OF WATER IN WHEELWASH AT ALL TIMES.
3. CONTRACTOR RESPONSIBLE FOR ENSURING PROPER PERFORMANCE OF THIS ESC MEASURE INCLUDING DRAINAGE TO AND AWAY FROM MEASURE.
4. CONTRACTOR TO REPAIR IMMEDIATELY ANY PROBLEMS PREVENTING PROPER PERFORMANCE OF THIS ESC MEASURE OR ITS UPSTREAM/ DOWNSTREAM CONVEYANCE STRUCTURES.
5. SEDIMENT REMOVED SHALL BE DISPOSED OF ON–SITE IN SOIL STOCKPILE AREA FOR RE–USE OR OFF–SITE TO A CITY APPROVED DISPOSAL FACILITY.

1 TEMPORARY WHEEL WASH
SCALE: NTS



COMPOST BLANKETS AND BERMS

COMPOST MATERIAL SHALL BE A BLEND OF DECOMPOSED AND RECYCLED ORGANIC MATERIAL INTO A HUMUS RICH SOIL AMENDMENT. COMPOST SHALL BE DERIVED FROM GREEN MATERIAL CONSISTING OF CHIPPED, SHREDDED, OR GROUND VEGETATION.

THE COMPOST SHALL BE PROCESSED TO COMPLETION TO REDUCE WEED SEEDS, PATHOGENS, AND DELETERIOUS MATERIAL, AND SHALL NOT CONTAIN PAINT, PETROLEUM PRODUCTS, HERBICIDES, FUNGICIDES, OR OTHER CHEMICAL RESIDUES THAT WOULD BE HARMFUL TO PLANT OR ANIMAL LIFE. A MIX OF FINE AND COURSE GRADES OF COMPOST SHALL BE USED. SPECIFIC SPECIFICATIONS APPEAR IN THE TABLE BELOW.

UPPER BERM SHALL BE LOCATED AT OR ABOVE THE CREST OF THE SLOPE. LOWER BERM SHALL BE LOCATED AT OR BELOW TOE OF SLOPE.

PROPERTY	COMPOST BLANKET	COMPOST BERM
FINE PARTICLE SIZE/CONTENT	3/8–1/2 INCH SCREEN / 33%	3/8–1/2 INCH / 50%
COURSE PARTICLE SIZE/CONTENT	3/4" MINUS	3/4" MINUS
MOISTURE CONTENT	20–35%	20–35%
SOLUBLE SALT	4.0–5.0 MMHOS/CM	4.0–5.0 MMHOS/CM
ORGANIC MATTER	40–70%	40–70%
pH	6.0–8.0	6.0–8.0
HUMAN MADE INERTS	1.0% MAX	1.0% MAX
APPLICATION	2"–3" DEPTH	12" HIGH x 2' WIDE
STABLE/MATURITY	YES/HIGH	YES/HIGH

2 COMPOST BLANKET
SCALE: NTS

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phase	Bid Package 1
date	4/5/2018
revisions	
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EROSION AND SEDIMENT CONTROL DETAILS

C10.50

4/5/2018
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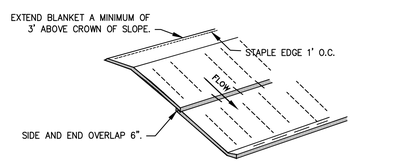
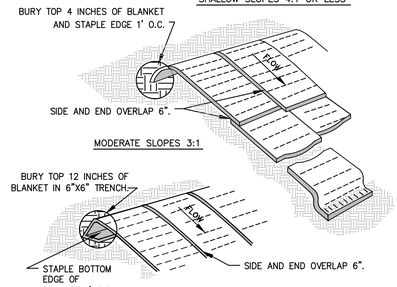


SHALLOW SLOPES 4:1 OR LESS



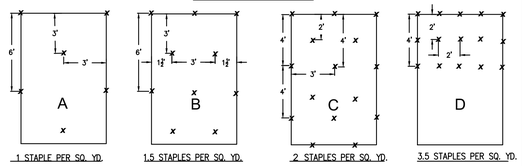
NOTES:
1. ON SHALLOW SLOPES BLANKETS MAY BE APPLIED ACROSS THE SLOPE.
2. ALL BLANKET STAPLE REQUIRED AS PER TABLE. USE 12" LONG STAPLES.

MATTING SLOPE INSTALLATION	Detail Drawing 4–1

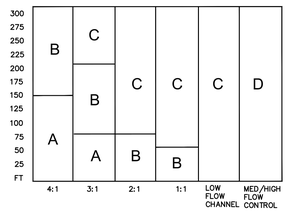
Page 4–29

5 EROSION CONTROL BLANKET INSTALLATION
SCALE: NTS

STAPLE PATTERN



LENGTH AND SLOPE TABLE

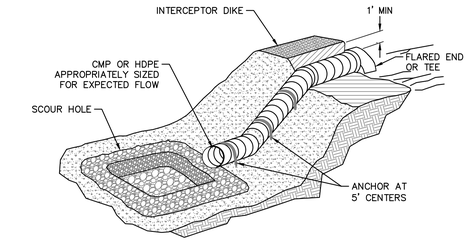


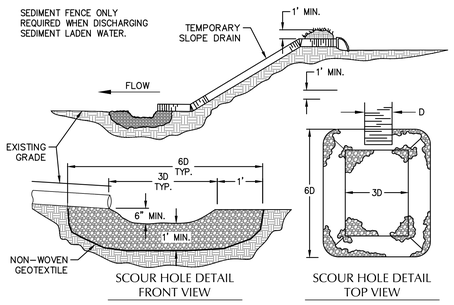
*MINIMUM STAPLE PATTERN GUIDE AND RECOMMENDATION FOR SLOPE AND CHANNEL APPLICATION.

STAPLE TABLE	DETAIL DRAWING 4–3

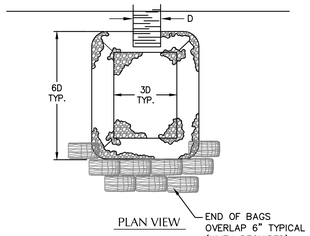
Page 4–31

6 EROSION CONTROL BLANKET STAPLE PATTERN
SCALE: NTS

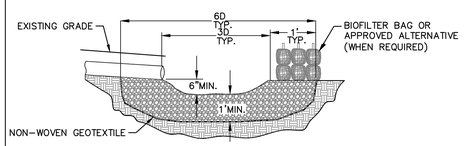




3 PIPE SLOPE DRAIN
SCALE: NTS



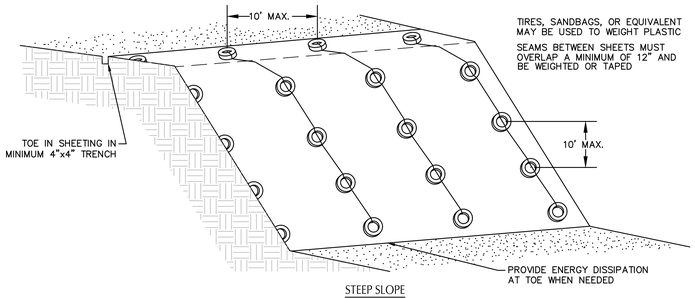
PLAN VIEW



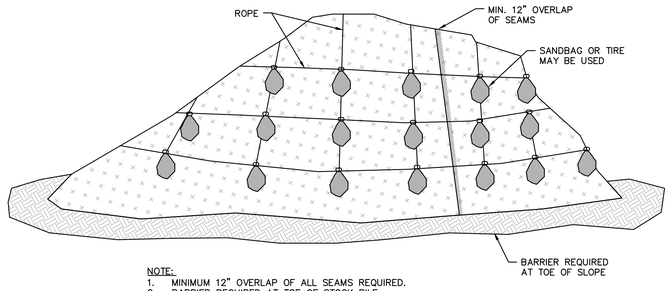
PROFILE

NOTES:
1. BIO BAGS ONLY REQUIRED WHEN DISCHARGING SEDIMENT LADEN WATER.
2. STAKING OF BAGS REQUIRED WITH EITHER METHOD USING (2) 1"x 2" WOOD STAKES OR APPROVED EQUAL PER BAG.

4 OUTLET PROTECTION RIP RAP
SCALE: NTS



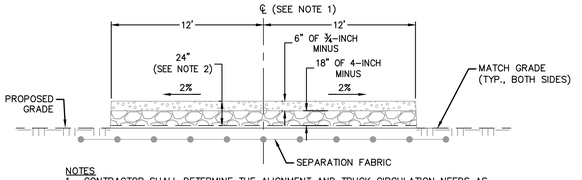
STEEP SLOPE



NOTE:
1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
2. BARRIER REQUIRED AT TOE OF STOCK PILE.
3. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.

STOCKPILE

1 PLASTIC SHEETING
SCALE: NTS



NOTES
1. CONTRACTOR SHALL DETERMINE THE ALIGNMENT AND TRUCK CIRCULATION NEEDS AS NECESSARY TO EXECUTE THE WORK.
2. HAUL ROAD SECTION SHOWN IS FOR HEAVY DUTY TRAFFIC. CONTRACTOR MAY USE 18"–24" THICK SECTION FOR HAUL ROAD AREAS OR 12"–18" FOR STAGING AREAS, COORDINATE ALTERNATE HAUL ROAD SECTIONS WITH GEOTECH.

2 TEMPORARY HAUL ROAD
SCALE: NTS

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EROSION AND SEDIMENT DETAILS

C10.51

4/5/2018
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PRE-STRESSED SOLDIER PILE WALL NOTES

CODE REQUIREMENTS:

ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE 2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC), BASED ON THE 2012 INTERNATIONAL BUIDLING CODE (IBC)

REFERENCE DOCUMENTS:

1. "Recommendations for Prestressed Rock and Soil Anchors" by the Post-Tensioning Institute, latest edition.
2. OSHA and WISHA Standards.
3. Geotechnical Report by XXX, dated XXX XX, 20XX.

SYSTEM DESCRIPTION:

SHORE THE EXCAVATION BY METHODS AS SHOWN ON THE DRAWINGS. CONTRACTOR TO DESIGN THE ANCHORAGE OF THE ROD OR TENDON AS REQUIRED AS PART OF WORK, ASSUMING FULL RESPONSIBILITY FOR THE STRENGTH AND ADEQUACY OF THE TIEBACK ANCHORAGE.

SHORED WALL WILL ACT AS <FORMWORK FOR PERMANENT BASEMENT WALL> <PERMANENT BASEMENT WALL>.

THE ASSUMED SHORING SEQUENCE IS AS FOLLOWS:

1. DRILL AND INSTALL SOLDIER PILES.
2. EXCAVATE TO FIRST TIEBACK AND INSTALL LAGGING
3. DRILL FOR TIEBACK, GROUT AND TENSION TIEBACK.
4. CONTINUE STEPS 2 AND 3 UNTIL BOTTOM OF EXCAVATION IS OBTAINED.
5. BUILD FACING WALL.

DO NOT EXCAVATE MORE THAN 3 FEET. BELOW A TIEBACK LEVEL UNTIL ALL TIEBACKS AT THAT LOCATION HAVE BEEN INSTALLED, STRESSED AND LOCKED OFF AT THE REQUIRED LOCK-OFF LOAD.

ALL SHORING TIEBACK ANCHORS ARE TEMPORARY AND ARE TO BE DETENSIONED AFTER SLABS ARE COMPLETE TO STREET LEVEL. CONTRACTOR TO COORDINATE TIMING OF DETENSIONING OF TIEBACK ANCHORS WITH STRUCTURAL ENGINEER OF RECORD.

WHERE SOLDIER PILES ARE INSTALLED IN THE RIGHT OF WAY, REMOVE PILES AND LAGGING TO A DEPTH OF 5 FEET BELOW FINISHED GRADE AT COMPLETION OF WORK.

QUALITY ASSURANCE:

WORK SHALL BE DONE BY A FIRM SPECIALIZING IN THIS TYPE OF CONTRUCTION. THE FIRM SHALL:

A.) REGULARLY AND PRESENTLY PERFORM SHORING AND TIEBACK INSTALLATION AS ONE OF THEIR PRINCIPAL SERVICES.

B.) HAVE TECHNICAL QUALIFICATIONS, EXPERIENCE, TRAINING, AND EQUIPMENT TO PROPERLY INSTALL SHORING AND TIEBACKS AS SHOWN.

PROJECT CONDITIONS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING SITE RECORDS OF EXISTING UTILITIES AT UTILITY COMPANY OFFICES AND AT THE OFFICE OF THE CITY ENGINEER TO DETERMINE CONDITIONS UNDER WHICH WORK WILL BE PERFORMED, AND TO UNDERSTAND THE LOCATION OF ALL UTILITIES.

THE CONTRACTOR SHALL FORMULATE THEIR OWN CONCLUSIONS AS TO THE EXTENT OF EXISTING SUBSURFACE CONSTRUCTION. **ALL UTILITIES AND SUBSURFACE CONSTRUCTION MAY NOT BE SHOWN ON THESE DRAWINGS.** CONTRACTOR HAS FULL RESPONSIBILITY TO AVOID SUBSURFACE UTILITIES AND CONSTRUCTION.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION.

DURING SHORING INSTALLATION CONSTRUCTION OF OTHER WORK MAY BE IN PROGRESS. THE CONTRACTOR SHALL BE AWARE OF OTHER WORK BEING PERFORMED AND SHALL COORDINATE THEIR WORK WITH OTHER WORK IN PROGRESS, INCLUDING WORK IN PUBLIC RIGHT-OF-WAY.

ELEVATIONS SHOWN FOR TOP OF SHORING ARE APPROXIMATE. TOP OF SHORING ELEVATION IS TO BE COORDINATED WITH FIELD CONDITIONS. GROUND SURFACE ELEVATIONS MAY BE EXISTING OR REPRESENTATIVE OF EXCAVATED OR FILLED GRADES. ELEVATIONS SHOWN AT THE EXCAVATION LEVEL ARE THE APPROXIMATE DEPTH OF EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE FOUNDATION ADJACENT TO THE SHORING. NOTIFY THE ARCHITECT AND ENGINEER OF DISCREPANCIES IN ELEVATIONS AND OBTAIN DIRECTION BEFORE PROCEEDING

DELEGATED DESIGN SUBMITTALS:

TIEBACK ANCHOR DESIGN IS A DELEGATED DESIGN.

SELECTION OF THE TIEBACK ANCHORAGE TYPE IS THE RESPONSIBILITY OF THE CONTRACTOR. TIEBACK ANCHOR DESIGN DRAWINGS AND CALCULATIONS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON. SUBMITTAL SHALL BE RECIEVED BY THE ARCHITECT **MINIMUM OF TWO WEEKS** PRIOR TO THE START OF CONSTRUCTION, OR AS REQUIRED BY THE LOCAL JURISDICTION, AND SHALL INCLUDE THE FOLLOWING AT A MINIMUM:

A.) SHOP DRAWINGS DESCRIBING TENDON FABRICATION AND INSTALLATION REQUIREMENTS AND INDICATING THE PROPOSED BAR/STRAND ANCHORING METHOD TO BE USED ON THIS PROJECT. IDENTIFY ALL COMPONENTS. SUBMIT STAMPED DRAWINGS AND CALCULATIONS BY A STRUCTURAL ENGINEER, REGISTERED IN THE STATE OF OREGON, FOR EACH SYSTEM.

B.) DETAILED ANCHOR INSTALLATION PROCEDURE, INCLUDING CONTINGENCY MEASURES, TO ADDRESS TIEBACKS THAT FAIL OR TEST LOWER THAN THE LOAD REQUIRED.

C.) GROUT MIX PROPORTIONS WITH SUPPORTING LABORATORY TEST DATA INCLUDING, MIXING, AND INJECTION METHODS.

D.) PRESSURE GROUT PLACING PROCEDURES, ADDRESSING METHOD FOR DETERMINATION OF "LOAD ZONE" GROUT PLUG LENGTH.

E.) NAME OF PERSON(S) WHO WILL MANAGE THE PROJECT IN THE FIELD AND THEIR QUALIFICATIONS.

F.) CONTRACTOR AND SUBCONTRACTOR QUALIFICATIONS AND DRILLING PLAN.

G.) EQUIPMENT TO BE USED FOR TESTING AND STRESSING AND FOR MEASURING ELONGATION, INCLUDING CALIBRATION METHODS.

H.) ANCHOR PLACEMENT VERIFICATION RECORDS SHOWING MEASUREMENTS OF MOVEMENT (TO BE SUBMITTED WEEKLY DURING CONSTRUCTION).

SUBMITTALS:

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING:

SUBMITTALS (1), (2)

ITEM	FOR REVIEW	FOR INFORMATION	COMMENTS
CONCRETE, GROUT AND CDF MIX DESIGNS	X		
CONCRETE REINFORCEMENT	X		
CONCRETE ANCHORAGES	X		
EMBEDDED STEEL ITEMS	X		
STRUCTURAL STEEL	X		
STEEL WELDING PROCEDURES		X	
PRECONSTRUCTION SURVEY		X	
SHORING MONITORING RESULTS		X	
CONSTRUCTION STAGING PLAN		X	REF. NOTE 3

FOOTNOTES:

1. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ITEMS. IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE STRUCTURAL ENGINEER.

2. FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.

3. CONSTRUCTION STAGING PLAN SHALL INCLUDE THE GEOMETRY, LAYOUT, AND LOADING OF CRANE AND CONCRETE PUMP OUTRIGGERS, EARTHWORK VEHICLES AND EQUIPMENT, MATERIAL LAYDOWN AREAS, AND ANY OTHER ITEMS CAUSING SURCHARGE LOADING ON THE SHORED WALLS. **LOADS IN EXCESS OF THOSE DESCRIBED IN THESE DRAWINGS MAY REQUIRE CHANGES TO THE SHORING DESIGN OR MAY BE DISALLOWED.**

CORROSION PROTECTION:

1. SOLDIER PILE WALL TO BE PERMANENT SITE STRUCTURAL INSTALLATION. ALL COMPONENTS OF THE SYSTEM INCLUDING PILES, TIE-BACKS, LAGGING AND CONNECTIONS TO BE PROTECTED FROM CORROSION.

SPECIAL INSPECTION:

SPECIAL INSPECTION WILL BE PROVIDED BY THE OWNER BASED ON THE REQUIREMENTS OF THE 2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC) AS SUMMARIZED IN THE TABLE BELOW. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM INSPECTIONS.

SPECIAL INSPECTION PROGRAM (1)

ESTABLISHED PER 2014 OSSC SECTION 109 & CHAPTER 17

ITEM	CONTINUOUS (3)	PERIODIC (3)	COMMENTS
SOILS			
GRADING, EXCAVATION & FILL	X		BY GEOTECHNICAL ENGINEER
PILING, TIEBACKS			
DRILLING, INSTALLATION & TESTING	X		BY GEOTECHNICAL ENGINEER
CONCRETE, GROUT			
PLACEMENT AND TESTING	X		
REINFORCING STEEL PLACEMENT		X	
SHOP WELDING			
SINGLE PASS FILLET WELDS ≤ 5/16"		X	REF. NOTE 4
FIELD WELDING			
SINGLE PASS FILLET WELDS ≤ 5/16"		X	REF. NOTE 4
FILLET WELDS > 5/16"	X		REF. NOTE 4
PARTIAL/COMPLETE PENETRATION	X		REF. NOTE 5

PROGRAM FOOTNOTES:

1.) THE ITEMS CHECKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH OSSC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE PROJECT SPECIFICATIONS AND THE SPECIFIC GENERAL NOTES SECTION. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.

2.) SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR PER OSSC SECTION 1704.2.1.

3.) CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION (OSSC SECTION 1702). PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IN ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.

4.) ALL WELDS SHALL BE VISUALLY INSPECTED.

5.) ALL COMPLETE PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY OR BY USE OF A COMPARABLE APPROVED METHOD. WHERE CJP WELDING IS REPETITIVE, CONTINUOUS INSPECTION MAY BE REDUCED TO PERIODIC WHEN THE SPECIAL INSPECTOR HAS REVIEWED THE WELDER CERTIFICATIONS, WPS, MATERIAL PREPERATION FOR THE MATERIAL TO BE WELDED AND IS SATISFIED BY THE PRIOR WORK OF THE INDIVIDUAL WELDER.

SHORING PILE PLACEMENT:

PILES SHALL BE PLACED WITH THE FOLLOWING TOLERANCES:

1. IN THE PLANE OF THE WALL THE TOP OF THE PILES SHALL BE PLACED +/- 3" FROM THE DESIGNATED LOCATION.

2. OUT OF THE PLANE OF THE WALL THE TOP OF THE PILE SHALL BE PLACED +/- 2" FROM THE DESIGNATED LOCATION WHERE THE WALL DOES NOT ACT AS FORMWORK FOR PERMANENT ELEMENTS.

3. OUT OF THE PLANE OF THE WALL THE TOP OF THE PILES SHALL BE PLACED +0"/- 3" FROM THE DESIGNATED LOCATION WHERE THE WALL ACTS AS FORMWORK FOR PERMANENT ELEMENTS, WHERE POSITIVE IS TOWARD THE INSIDE OF THE EXCAVATION.

4. PILES SHALL BE PLACED NOT MORE THAN 1/120 OUT OF VERTICAL ALIGNMENT.

TIEBACK ANCHOR DESIGN:

THE DESIGN AND INSTALLATION OF TIEBACK ANCHORS SHALL BE SUBJECT TO THE FOLLOWING DESIGN CRITERIA:

1.) TIEBACK ANCHOR LOCATIONS: LOCATE TIEBACK ANCHORS FAR ENOUGH BEHIND THE RETAINED EXCAVATION FACE TO ENSURE ANCHORAGE BEYOND THE "NO LOAD ZONE" AS INDICATED ON THE DRAWINGS.

2.) SOIL ANCHOR INTERACTION OF THE TIEBACKS SHALL BE CAPABLE OF SUSTAINING LOADS EQUAL TO 150% OF THE MAXIMUM TIEBACK DESIGN LOAD AS INDICATED ON THE DRAWINGS. THE ANCHORS SHALL BE CAPABLE OF THIS ULTIMATE CONDITION WITHOUT YIELD OR CREEP.

3.) THE ANCHORAGE DESIGN AND INSTALLATION METHOD SHALL BE A METHOD THAT HAS BEEN SUCCESSFULLY USED PREVIOUSLY WITH SIMILAR SOIL AND GROUNDWATER CONDITIONS.

4.) THE DESIGN OF BAR/STRAND ASSEMBLAGE SHALL ALLOW ADDITIONAL ANCHOR LENGTH IF NECESSARY. LONGER RODS/STRANDS SHALL BE READILY AVAILABLE AND PROVISIONS MADE TO ADD TO THE REQUIRED LENGTH.

5.) CENTRALIZERS AND SPACERS: CENTRALIZERS AND SPACERS SHALL BE FABRICATED FROM PLASTIC, STEEL, OR MATERIAL THAT IS NON-DETRIMENTAL TO THE CORROSION PROTECTION OF THE PRE-STRESSING STEEL. WOOD SHALL NOT BE USED. CENTRALIZERS AND SPACERS SHALL PERMIT GROUT TO FREELY FLOW DOWN THE DRILLED HOLE.

TIEBACK ANCHOR INSTALLATION:

THE INSTALLATION OF THE TIEBACK ANCHORS SHALL BE SUBJECT TO THE FOLLOWING PERFORMANCE CRITERIA:

1.) THE TIEBACK HOLES SHALL BE DRILLED IN AN ACCEPTABLE MANNER, WITHOUT CAVING, SLOUGHING, OR LOSS OF GROUND.

2.) CASING OR OTHER METHODS TO PREVENT LOSS OF GROUND AND COLLAPSE OF THE HOLE DURING AND AFTER INSTALLATION SHALL BE USED WHERE NECESSARY.

3.) TIEBACK ANCHORS SHALL BE PRESSURE GROUTED. GROUT SHALL NOT EXTEND INTO THE "NO LOAD ZONE". THE CONTRACTOR SHALL USE METHODS THAT ALLOW AN ACCURATE DETERMINATION OF THE LENGTH OF GROUT PLUGS.

4.) PRIOR TO INSTALLATION OF PRODUCTION ANCHORS, THE DESIGN ANCHOR CAPACITY AND ACCEPTABLE ANCHOR MOVEMENTS SHALL BE VERIFIED BY FULL-SCALE PERFORMANCE TESTS CONDUCTED IN GENERAL ACCORDANCE WITH SECTION 8.3.2 AS FOUND IN "RECOMMENDATIONS FOR ROCK & SOIL ANCHORS", PTI, 2014. THE FIRST TWO ANCHORS INSTALLED SHALL BE PROOF TESTED. IF VARYING SOIL CONDITIONS ARE ENCOUNTERED PERFORM ADDITIONAL PROOF TESTING AS DIRECTED BY THE GEOTECHNICAL ENGINEER

5.) COMPLETE PERFORMANCE TESTING ACCORDING TO THE PROCEDURES OUTLINED IN THE PERFORMANCE TESTING SECTION.

6.) PROOF LOAD ALL PRODUCTION ANCHORS ACCORDING TO THE PROCEDURES OUTLINED IN THE PROOF TESTING SECTION.

7.) IF THE TIEBACK ANCHOR IS NOT CAPABLE OF DEVELOPING THE REQUIRED TEST LOAD, THE ULTIMATE LOAD CAPACITY SHALL BE ESTABLISHED AS ZERO. THIS ANCHOR SHALL BE REPLACED.

8.) TIEBACK HOLES SHALL BE BACKFILLED TO PREVENT COLLAPSE OF THE HOLES WITHIN THE NO-LOAD ZONE. THE BACKFILL SHALL CONSIST OF FRACTURED GRAVEL, OR OTHER NON- CEMENTITIOUS MIXTURE OR MEANS ACCEPTABLE TO THE ENGINEER AND OWNER, SUCH THAT THE ANCHOR IS FREE TO DISPLACE IN AN UNRESTRICTED MANNER UPON LOADING.

9.) ADDITIONAL AND REPLACEMENT TIEBACK ANCHORS SHALL BE DESIGNED AND INSTALLED WHEN NECESSARY, AND THE ALLOWABLE CAPACITY SHALL BE REDUCED IF NECESSARY BY A METHOD ACCEPTABLE TO THE ENGINEER TO ALLOW FOR INFLUENCE OF ADJACENT TIEBACK ANCHORS.

a.) DUE TO VARIABLE SUBSURFACE CONDITIONS, ANCHOR FAILURES ARE COMMON IN THIS TYPE OF INSTALLATION. THE CONTRACTOR SHALL ANTICIPATE THE NEED FOR ANCHOR REPLACEMENT.

b.) THE CONTRACTOR SHALL BEAR ALL COSTS FOR REPLACEMENT ANCHORS AND SHALL ALLOW TIME FOR ANCHOR REPLACEMENT IN THE CONSTRUCTION SCHEDULE.

c.) REPLACEMENT ANCHORS AND/OR OTHER CHANGES OR REVISIONS TO APPROVED DRAWINGS SHALL BE SUBMITTED AND APPROVED PRIOR TO THEIR INSTALLATION. SUBMIT WITH CALCULATIONS STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON.

10.) TIEBACKS SHALL BE DESIGNED FOR THE LOADS SHOWN ON THE DRAWING. MINIMUM EMBEDMENT LENGTH SHALL BE 15'-0". CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANCHOR EMBEDMENT DEPTH.

11.) PERMANENT TIEBACKS REQUIRE A CORROSION PROTECTION SYSTEM. THE CONTRACTOR IS RESPOSIBLE FOR SELECTING AN APPROPRIATE SYSTEM PROVIDING A MINIMUM DESIGN LIFE SPAN OF 100 YEARS. DESIGN LIFE SHALL BE SUBSTANTIATED BY TEST DATA AND/OR A PROJECT SPECIFIC CORROSION ANALYSIS AND SHALL ACCOUNT FOR THE SPECIFIC CONDITIONS PRESENT ON THE SITE.

PERFORMANCE TESTING:

PRIOR TO INSTALLING PRODUCTION TIEBACKS, CONDUCT A MINIMUM OF TWO SUCCESSFUL PERFORMANCE TESTS ON TIEBACKS FOR EACH INSTALLATION METHOD AND SOIL TYPE ENCOUNTERED ON THE PROJECT. INSTALL THE TEST TIEBACKS BY THE SAME METHODS, PERSONNEL, MATERIALS, AND EQUIPMENT AS THE PRODUCTION ANCHORS. CHANGES IN METHODS, PERSONNEL, MATERIALS, OR EQUIPMENT MAY REQUIRE ADDITIONAL PERFORMANCE TESTING AS DETERMINED BY THE ENGINEER. PERFORM TESTING AFTER THE GROUT HAS CURED FOR AT LEAST 72 HOURS OR ATTAINED AT LEAST THE SPECIFIED 3-DAY COMPRESSIVE STRENGTH. AN INDEPENDENT TESTING LABORATORY SHALL RECORD ALL TEST DATA. **PERFORMANCE TESTING SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER**

THE MAXIMUM STRESS IN THE PRESTRESSING STEEL SHALL NOT EXCEED 80 PERCENT OF THE GUARANTEED ULTIMATE TENSILE STRENGTH (GUTS) DURING TESTING. PILES AND TIEBACKS MAY REQUIRE EXTRA REINFORCEMENT TO PERMIT STRESSING TO 200 PERCENT OF THE DESIGN TIEBACK LOAD (DTL) AS REQUIRED BY THE PERFORMANCE TEST. TIEBACK DESIGN TEST LOADS SHALL BE THE DESIGN LOADS SHOWN ON THE DRAWINGS.

CONDUCT THE PERFORMANCE TESTS BY INCREMENTALLY LOADING THE TEST TIEBACKS TO A MAXIMUM TEST LOAD OF 200 PERCENT OF DTL IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. RECORD THE TIEBACK MOVEMENTS AT EACH LOAD INCREMENT.

VERIFICATION TEST LOAD SCHEDULE TEMPORARY TIEBACKS	
Load	Hold time
0.05 DTL (AL)	until stable
0.25 DTL	1 minute
0.50 DTL	1 minute
0.75 DTL	1 minute
1.00 DTL	1 minute
1.25 DTL	1 minute
1.50 DTL (creep test)	60 minutes
1.75 DTL	1 minute
2.00 DTL or failure	10 minutes

APPLY THE MINIMUM ALIGNMENT LOAD (AL) REQUIRED TO ALIGN THE TESTING APPARATUS, NOT TO EXCEED 5 PERCENT OF DTL. SET THE DIAL GAUGES TO "ZERO" AFTER THE ALIGNMENT LOAD HAS BEEN APPLIED. FOLLOWING THE APPLICATION OF THE MAXIMUM LOAD (2.00 DTL), REDUCE THE LOAD TO THE ALIGNMENT LOAD (0.05 DTL MAXIMUM) AND RECORD THE PERMANENT SET.

START THE PERFORMANCE CREEP TEST PERIOD AS SOON AS THE CREEP TEST LOAD (1.50 DTL) IS APPLIED. MEASURE AND RECORD TIEBACK MOVEMENTS DURING THE CREEP PORTION OF THE TEST IN INCREMENTS OF 1, 2, 3, 4, 5, 6, AND 10 MINUTES. MAINTAIN THE LOAD DURING THE CREEP TEST WITHIN 2 PERCENT OF THE INTENDED LOAD. WHERE THE TIEBACK MOVEMENT BETWEEN 1 MINUTE AND 10 MINUTES EXCEEDS 0.040 INCHES, MAINTAIN THE MAXIMUM TEST LOAD FOR AN ADDITIONAL 50 MINUTES AND RECORD TIEBACK MOVEMENTS AT 20, 30, 40, 50, AND 60 MINUTES. PERFORMANCE TESTED TIEBACKS MAY BE USED AS PRODUCTION TIEBACKS IF THEY FULFILL THE ACCEPTANCE CRITERIA NOTED BELOW AND UPON APPROVAL BY THE ENGINEER.

PROOF TESTING:

COMPLETE PROOF TESTS ON ALL PRODUCTION TIEBACKS NOT SUBJECT TO A PERFORMANCE TEST. THE MAXIMUM STRESS IN THE PRESTRESSING STEEL SHALL NOT EXCEED 80 PERCENT OF GUTS DURING TESTING. USE THE DTL SHOWN ON THE DRAWINGS.

CONDUCT THE PROOF TESTS BY INCREMENTALLY LOADING THE TEST TIEBACKS TO A MAXIMUM TEST LOAD OF 133 PERCENT OF DTL <150 PERCENT FOR PERMANENT ANCHORS> IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. RECORD THE TIEBACKS MOVEMENTS AT EACH LOAD INCREMENT.

PROOF TEST LOAD SCHEDULE	
Load	Hold time
0.05 DTL maximum (AL)	1 minute
0.25 DTL	1 minute
0.50 DTL	1 minute
0.75 DTL	1 minute
1.00 DTL	1 minute
1.25 DTL	1 minute
1.33 DTL (tiebacks)	Creep Test (see text below)

APPLY THE MINIMUM ALIGNMENT LOAD (AL) REQUIRED TO ALIGN THE TESTING APPARATUS, NOT TO EXCEED 5 PERCENT OF DTL. SET THE DIAL GAUGES TO "ZERO" AFTER THE ALIGNMENT LOAD HAS BEEN APPLIED.

START THE PROOF CREEP TEST PERIOD AS SOON AS THE MAXIMUM TEST LOAD (1.33 DTL) IS APPLIED. MEASURE AND RECORD TIEBACK MOVEMENTS DURING THE CREEP PORTION OF THE TEST IN INCREMENTS OF 1, 2, 3, 4, 5, 6, AND 10 MINUTES. MAINTAIN THE LOAD DURING THE CREEP TEST WITHIN 2 PERCENT OF THE INTENDED LOAD. WHERE THE TIEBACK MOVEMENT BETWEEN 1 MINUTE AND 10 MINUTES EXCEEDS 0.040 INCHES, MAINTAIN THE MAXIMUM TEST LOAD FOR AN ADDITIONAL 50 MINUTES AND RECORD TIEBACK MOVEMENTS AT 20, 30, 40, 50, AND 60 MINUTES.

TEST TIEBACK ACCEPTANCE CRITERIA:

A TEST TIEBACK IS CONSIDERED ACCEPTABLE WHEN ALL OF THE FOLLOWING CRITERIA ARE MET:

1. FOR PERFORMANCE TESTS, THE TOTAL CREEP MOVEMENT IS LESS THAN 0.040 INCHES BETWEEN THE 1 AND 10 MINUTE READINGS OR THE TOTAL CREEP MOVEMENT IS LESS THAN 0.080 INCHES BETWEEN THE 6 AND 60 MINUTE READINGS, AND THE CREEP RATE IS LINEAR OR DECREASING THROUGHOUT THE CREEP TEST LOAD HOLD PERIOD.

2. FOR PROOF TESTS, THE TOTAL CREEP MOVEMENT IS LESS THAN 0.040 INCHES BETWEEN 1 AND 10 MINUTES, OR THE TOTAL CREEP MOVEMENT IS LESS THAN 0.080 INCHES BETWEEN 6 AND 60 MINUTES READINGS, AND THE CREEP RATE IS LINEAR OR DECREASING THROUGHOUT THE CREEP TEST LOAD HOLD PERIOD.

3. FOR PERFORMANCE AND PROOF TESTS, THE TOTAL MEASURED MOVEMENT AT THE MAXIMUM TEST LOAD EXCEEDS 80 PERCENT OF THE THEORETICAL ELASTIC ELONGATION OF THE UNBONDED LENGTH.

4. A PULLOUT FAILURE DOES NOT OCCUR. PULLOUT FAILURE IS DEFINED AS THE INABILITY TO FURTHER INCREASE THE TEST LOAD WHILE THERE IS CONTINUED PULLOUT MOVEMENT OF THE TEST TIEBACK OR THE NON-ELASTIC MOVEMENT EXCEEDS 2 INCHES. RECORD THE PULLOUT FAILURE LOAD AS PART OF THE TEST DATA.

MAINTAINING STABILITY OF THE TEMPORARY UNBONDED TEST LENGTH FOR SUBSEQUENT GROUTING IS THE CONTRACTOR'S RESPONSIBILITY. IF THE UNBONDED TEST LENGTH OF PRODUCTION PROOF TEST TIEBACKS CANNOT BE SATISFACTORILY GROUTED SUBSEQUENT TO TESTING, THE PROOF TEST TIEBACK SHALL BECOME SACRIFICIAL AND SHALL BE REPLACED.

TEST REJECTION:

A TIEBACK MAY BE REJECTED IF IT DOES NOT MEET THE FOLLOWING CRITERION:

1. FOR PERFORMANCE TESTS, THE ENGINEER WILL EVALUATE THE RESULTS OF EACH PERFORMANCE TEST. INSTALLATION METHODS THAT DO NOT SATISFY THE TESTING REQUIREMENTS WILL BE REJECTED. THE CONTRACTOR SHALL PROPOSE ALTERNATIVE METHODS AND INSTALL REPLACEMENT VERIFICATION TEST TIEBACKS.

2. FOR PROOF TESTS, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO REPLACE SOME OR ALL OF THE INSTALLED PRODUCTION TIEBACKS BETWEEN A FAILED PROOF TEST AND THE ADJACENT PASSING PROOF TEST. ALTERNATIVELY, THE ENGINEER MAY REQUIRE THE INSTALLATION AND TESTING OF ADDITIONAL PROOF TEST TIEBACKS TO VERIFY THE ADJACENT PREVIOUSLY INSTALLED PRODUCTION TIEBACKS HAVE SUFFICIENT LOAD-CARRYING CAPACITY.

TIEBACK LOCK-OFF:

FOLLOWING SUCCESSFUL PROOF LOADING, LOCK-OFF EACH TIEBACK ANCHOR AS NOTED ON THE PILE AND TIEBACK SCHEDULES. MAXIMUM STRESS IN PRESTRESSING STEEL SHALL NOT EXCEED 60 PERCENT OF THE GUTS AT THE DESIGN LOAD.

JACKING AND TEST EQUIPMENT:

1. MEASURE THE LOAD ON THE TIEBACKS WITH A PRESSURE GAUGE CALIBRATED WITH THE JACK AND ACCURATE ENOUGH TO READ 100 PSI PRESSURE INCREMENTS. THE PUMP SHALL BE CAPABLE OF APPLYING EACH LOAD INCREMENT IN LESS THAN 60 SECONDS.

2. MEASURE THE TIEBACK HEAD MOVEMENT WITH A MINIMUM OF 2 DIAL GAUGES CAPABLE OF MEASURING TO 0.001 INCHES.

LAGGING:

LAGGING SHALL BE INSTALLED AS THE EXCAVATION PROGRESSES. IN NO CASE SHALL MORE THAN 4 FEET OF VERTICAL SOIL BE LEFT EXPOSED WITHOUT LAGGING. ALL VOIDS BEHIND LAGGING SHALL BE BACKFILLED PROMPTLY WITH LEAN MIX GROUT WITH A CLEAN GRANULAR MATERIAL, SUCH AS SAND OR PEA GRAVEL INNEDIATELY AFTER INSTALLATION.

CONCRETE:

CONCRETE WORK SHALL CONFORM TO CHAPTER 19 OF THE OSSC. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, AND SHALL BE AS FOLLOWS:

CONCRETE MIX DESIGNS

f'c (PSI)	MAXIMUM ABSOLUTE WATER-CEMENT RATIO BY WEIGHT	MINIMUM CEMENT CONTENT	USE
N/A	N/A	141 LB/CY	PILE LEAN CONCRETE
3,000	.50	470 LB/CY	PILE STRUCTURAL CONCRETE
4,000	.45	550 LB/CY	SHOTCRETE WALLS
5,000	.45	630 LB/CY	SHOTCRETE WALLS

FLYASH CONFORMING TO ASTM C618 (INCLUDING TABLE 2A) TYPE F OR TYPE C MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA.

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS ALONG WITH TEST DATA COMPLIANT WITH OSSC SECTION 1905 A MINIMUM OF TWO WEEKS PRIOR TO PLACING CONCRETE. NO WATER MAY BE ADDED TO CONCRETE IN THE FIELD UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER IN CONJUNCTION WITH THE CONCRETE MIX DESIGN.

A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494 USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING (HRWR) ADMIXTURE CONFORMING TO ASTM C494 TYPE F OR G MAY BE USED IN CONCRETE MIXES PROVIDING THAT THE SLUMP DOES NOT EXCEED 10". AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260 SHALL BE USED IN CONCRETE MIXES FOR EXTERIOR HORIZONTAL SURFACES EXPOSED TO WEATHER. THE AMOUNT OF ENTRAINED AIR SHALL BE 6% ± 1% BY VOLUME.

SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE PLACING CONCRETE.

WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE SURFACE SHALL BE CLEANED AND ROUGHENED TO A MINIMUM 1/4" AMPLITUDE. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE.

VERIFY ALL BLOCK OUTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS.

SHOTCRETE:

SHOTCRETE SHALL CONFORM TO ACI 506.2-13 AND SECTION 1910 OF THE OSSC. NON-CONTACT LAP SPLICES SHALL BE DETAILED IS ACCORDANCE WITH THE CODE AND SHOWN ON THE SHOP DRAWINGS. PRE-CONSTRUCTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH OSSC SECTION 1910.10.

ANCHOR GROUT:

ANCHOR GROUT SHALL CONSIST OF NEAT CEMENT, OR CEMENT AND SAND, AND WATER AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. DESIGN OF ANCHOR GROUT IS THE RESPONSIBILITY OF THE CONTRACTOR.

ADMIXTURES THAT CONTROL BLEED, IMPROVE FLOWABILITY, REDUCE WATER CONTENT AND RETARD SET MAY BE USED IN

EXISTING WETLAND

EXISTING STREAM

EXISTING FOREST EDGE

MATCHLINE SEE SHEET L1.01

MATCHLINE SEE SHEET L1.03

MATCHLINE SEE SHEET L1.10

LA-2

FUTURE BID PACKAGE

EXISTING ELEMENTARY SCHOOL BUILDING

PROPOSED MITIGATION AREA

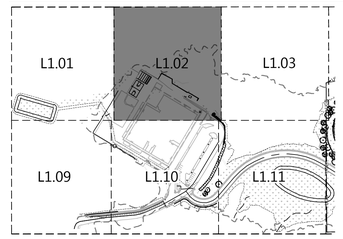
LEGEND

- UGB — UGB EXPANSION AREA
- LIMIT OF WORK
- EXISTING FOREST EDGE
- CHAINLINK FENCE — Size as shown
- CONCRETE PAVING - PEDESTRIAN
- PB — IRRIGATED PLANT BED — With bark mulch — 18" soil depth min.
- SW — STORMWATER LANDSCAPE — With rock mulch — 12" soil depth min.
- LA-1 — IRRIGATED SEEDED LAWN — 6" Soil depth min.
- LA-2 — UNIRRIGATED SEEDED MEADOW — 4" Soil depth min.
- GR — GRAVEL DRIVE — See Civil
- AF — IRRIGATED ATHLETIC FIELD TURF — 12" Soil Depth
- SY — SYNTHETIC TRACK SURFACE
- UNIRRIGATED MITIGATION PLANT BED — 12" Soil Depth
- PROPOSED TREES — 1 1/2" caliper min.
- BIKE RACK
- TD AD CB DD — TRENCH DRAIN, AREA DRAIN, CATCH BASIN, DECK DRAIN — See Civil
- PERF PERF — PERFORATED PIPE
- SITE AND FIELD LIGHTING — See Electrical

NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



1" = 20'-0"

0' 10' 20' 40'

BRIC ARCHITECTURE, INC.
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Seaside School District

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phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

Site Plan

L1.02

PRE-STRESSED SOLDIER PILE WALL NOTES

MONITORING OF THE SURVEY POINTS SHALL INCLUDE VERTICAL AND HORIZONTAL MEASUREMENTS ACCURATE TO AT LEAST 0.01 FEET. THE FREQUENCY OF THE READINGS IS DEPENDENT ON THE CONSTRUCTION STAGE, AS NOTED BELOW:

OPTICAL SURVEY SCHEDULE	
Construction Stage	Monitoring Frequency
During excavation and until wall movements have stabilized.	Twice weekly
During excavation if lateral wall movements exceed 1 inch, or at the discretion of the Engineer.	Daily at minimum
After excavation is complete and wall movements have stabilized, if the data indicates little or no movement, until the basement floors are constructed.	Twice monthly

SUBMIT SURVEY DATA TO THE GEOTECHNICAL ENGINEER AND SHORING ENGINEER EACH WEEK.

SURVEYING MUST CONTINUE UNTIL THE PERMANENT STRUCTURE, INCLUDING FLOOR SLABS AS BRACES, IS COMPLETE UP TO FINAL STREET GRADES.

SHORING WALL DEFLECTION LIMITS AND MITIGATION MEASURES:

IF LATERAL MOVEMENTS OF THE SHORING WALL ARE OBSERVED TO EXCEED 0.5 INCH WHERE ABUTTING CITY RIGHT-OF-WAYS OR PRIVATE PROPERTIES, STOP CONSTRUCTION OF THE SHORING WALL IN THE VICINITY OF THE AFFECTED PORTION OF THE SHORING WALL. IMMEDIATELY AND DIRECTLY NOTIFY THE GEOTECHNICAL, STRUCTURAL ENGINEER, SHORING ENGINEER, BES AND PBOT IF 0.5 INCH OF MOVEMENT OCCURS BETWEEN TWO CONSECUTIVE READINGS AND WHEN TOTAL MOVEMENTS REACH 0.5 INCH. AT THAT AMOUNT OF MOVEMENT, THE CONTRACTOR, SHORING ENGINEER, AND GEOTECHNICAL ENGINEER SHALL DETERMINE THE CAUSE OF DISPLACEMENT AND DEVELOP REMEDIAL MEASURES SUFFICIENT TO LIMIT TOTAL WALL MOVEMENTS TO 1 INCH. THESE MEASURES MAY CONSIST OF INTERNAL BRACING (I.E. WALES AND RAKERS), ADDITIONAL TIEBACKS AND/OR SOIL BERMING. ALL EARTHWORK AND CONSTRUCTION ACTIVITIES MUST BE DIRECTED TOWARDS IMMEDIATE IMPLEMENTATION OF REMEDIAL MEASURES NECESSARY TO LIMIT TOTAL WALL MOVEMENTS TO WHAT HAS BEEN DEFINED AS ACCEPTABLE BY THE DESIGN TEAM AND THE GOVERNING JURISDICTIONS INDICATED ABOVE.

THE FREQUENCY OF THE SHORING SURVEY MONITORING PROGRAM WILL BE ALTERED DEPENDING ON HOW MUCH MOVEMENT IS OBSERVED. AT MINIMUM, THE MONITORING WILL BE INCREASED TO ONCE PER DAY UNTIL DIRECTED OTHERWISE BY THE GEOTECHNICAL ENGINEER.

BERM SOIL AGAINST THE SUBJECT WALL TO ARREST THE WALL MOVEMENT UNTIL THE MITIGATION MEASURES ARE IMPLEMENTED.

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kpff
111 SW Fifth Ave., Suite 2500
Portland, OR 97204
O: 503.227.3251
F: 503.274.4681
www.kpff.com

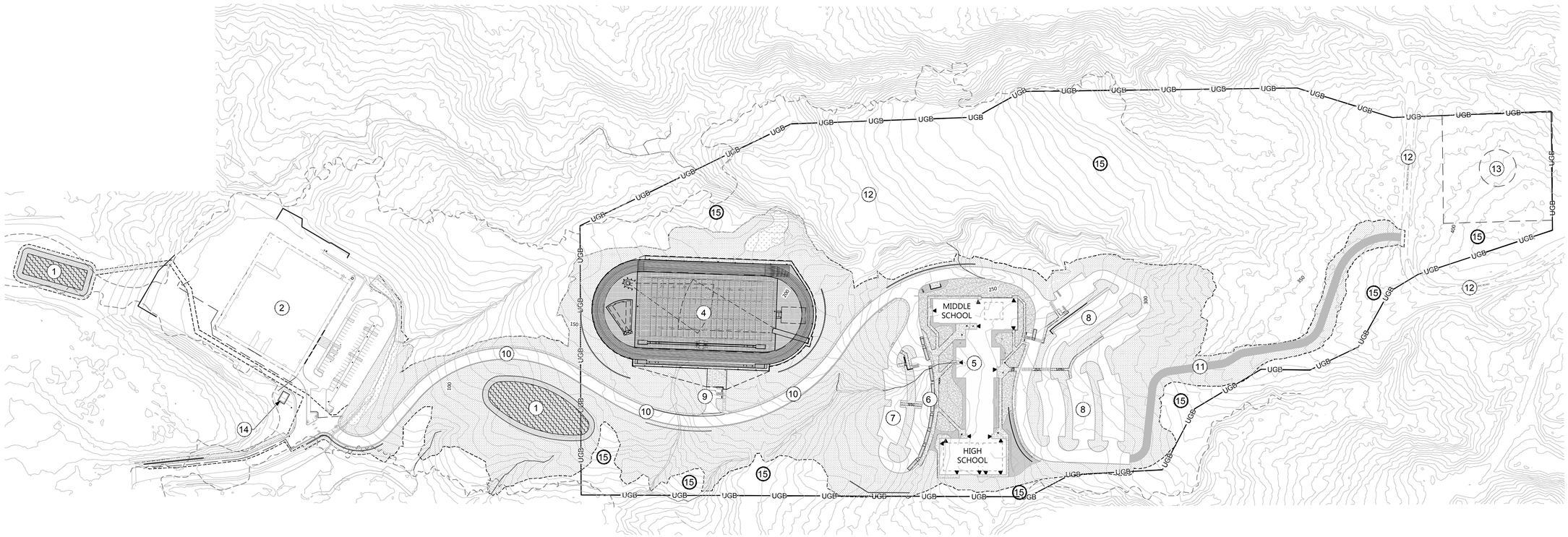
DESIGN DEVELOPMENT SET FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

phase	Bid Package 1
date	4/5/2018
revisions	
project #	17007

SOLDIER PILE WALL NOTES

SP.02

4/5/2018
N:\clp\2016\16\00377-Seaside-Schools\CAD\PLOT\1600377-G5.30-WALL-DTL.dwg



0' 60' 120' 240'

1 OVERALL SITE PLAN - FOR REFERENCE
1" = 120'-0"

KEY NOTES

1. PROPOSED STORMWATER TREATMENT FACILITIES
2. EXISTING SEASIDE HEIGHTS ES BUILDING
3. EXISTING ES PARKING
4. PROPOSED TRACK / ATHLETIC PRACTICE FIELD
5. PROPOSED MS/HS BUILDING
6. PROPOSED MS/HS BUS DROP-OFF
   (8) STANDARD BUSSES
   (2) SPECIAL EDUCATION BUSSES
7. PROPOSED MS/HS STAFF PARKING
8. PROPOSED MS/HS STUDENT PARKING
9. PROPOSED TRACK FACILITY ACCESSIBLE DROP-OFF
10. PROPOSED OVERFLOW PARKING ALONG ENTRY DRIVE
11. PROPOSED GRAVEL ACCESS DRIVE
12. EXISTING GRAVEL ACCESS DRIVE
13. PROPOSED POTENTIAL FUTURE RESERVOIR SITE
14. PROPOSED UTILITY PUMPHOUSE
15. WEYERHAUSER REFORESTATION BY OTHERS

TOPSOIL PLACEMENT SCHEDULE

BP 1 ADD 01

For the purposes of determining subgrade depths in Bid Package #1, the minimum topsoil placement requirements are as follows:

Areas of lime or lime and cement-treated subsoils:

IRRIGATED PLANT BEDS:	36" minimum depth
IRRIGATED SEEDED LAWNS:	18" minimum depth
IRRIGATED ATHLETIC FIELD TURF:	18" minimum depth
MITIGATION PLANT BEDS:	32" minimum depth
UNIRRIGATED SEEDED MEADOW:	9" minimum depth
STORMWATER LANDSCAPE:	12" minimum depth
PROPOSED TREE PLANTINGS:	Assume 54" diameter area by 36" depth

Areas where no lime or lime and cement-treated subsoils area used:

IRRIGATED PLANT BEDS:	18" minimum depth
IRRIGATED SEEDED LAWNS:	6" minimum depth
IRRIGATED ATHLETIC FIELD TURF:	12" minimum depth
MITIGATION PLANT BEDS:	18" minimum depth
UNIRRIGATED SEEDED MEADOW:	4" minimum depth
STORMWATER LANDSCAPE:	12" minimum depth
PROPOSED TREE PLANTINGS:	Assume 54" diameter area by 18" depth

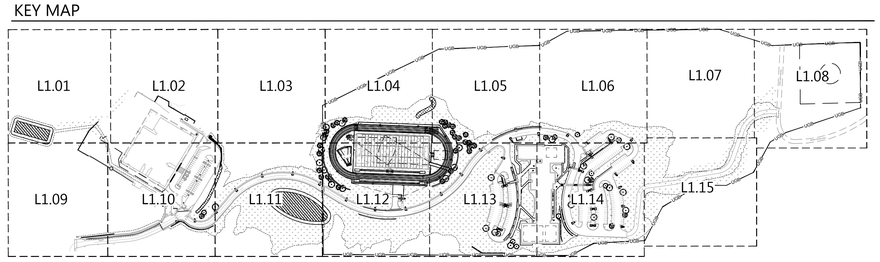
This is for reference only. Topsoil placement is NOT part of Bid Package #1. Topsoil placement will be included in future bid packages.

Topsoil is considered to be any combination of salvaged, onsite topsoil and imported topsoil.

GENERAL SITE PLAN NOTES

1. All survey information provided by:
   kpff Civil + Survey
   111 SW Fifth Avenue, Suite 2500
   Portland OR 97402
   Phone: 503.542.3860
2. Verify exact locations and routing of existing underground utilities prior to starting excavation. Repair any damage to existing pipes, utilities or related facilities at Contractor's expense in a manner approved by Owner's Representative.
3. Barricade and protect trunks, limbs, roots and root zones beyond dripline of existing trees and plant materials to remain as directed by Owner's Representative. Cut no limbs or roots larger than 2" in diameter without approval of Owner's Representative. Notify Owner's Representative prior to performing any excavation within protection areas.
4. Install new utilities so that rim elevations are flush with finish grades at pavement, lawn and plant beds. Adjust rim elevations of existing utilities accordingly.
5. All accessible components including, but not limited to signs, ramps, tactile warning, markings, etc. shall conform to all Oregon State Standards for parking and access for the disabled. Obtain Owner's Representative approval prior to installing any related work.
6. Verify existing elevations where new work abuts existing to remain. Notify Owner's Representative of any discrepancies.

KEY MAP



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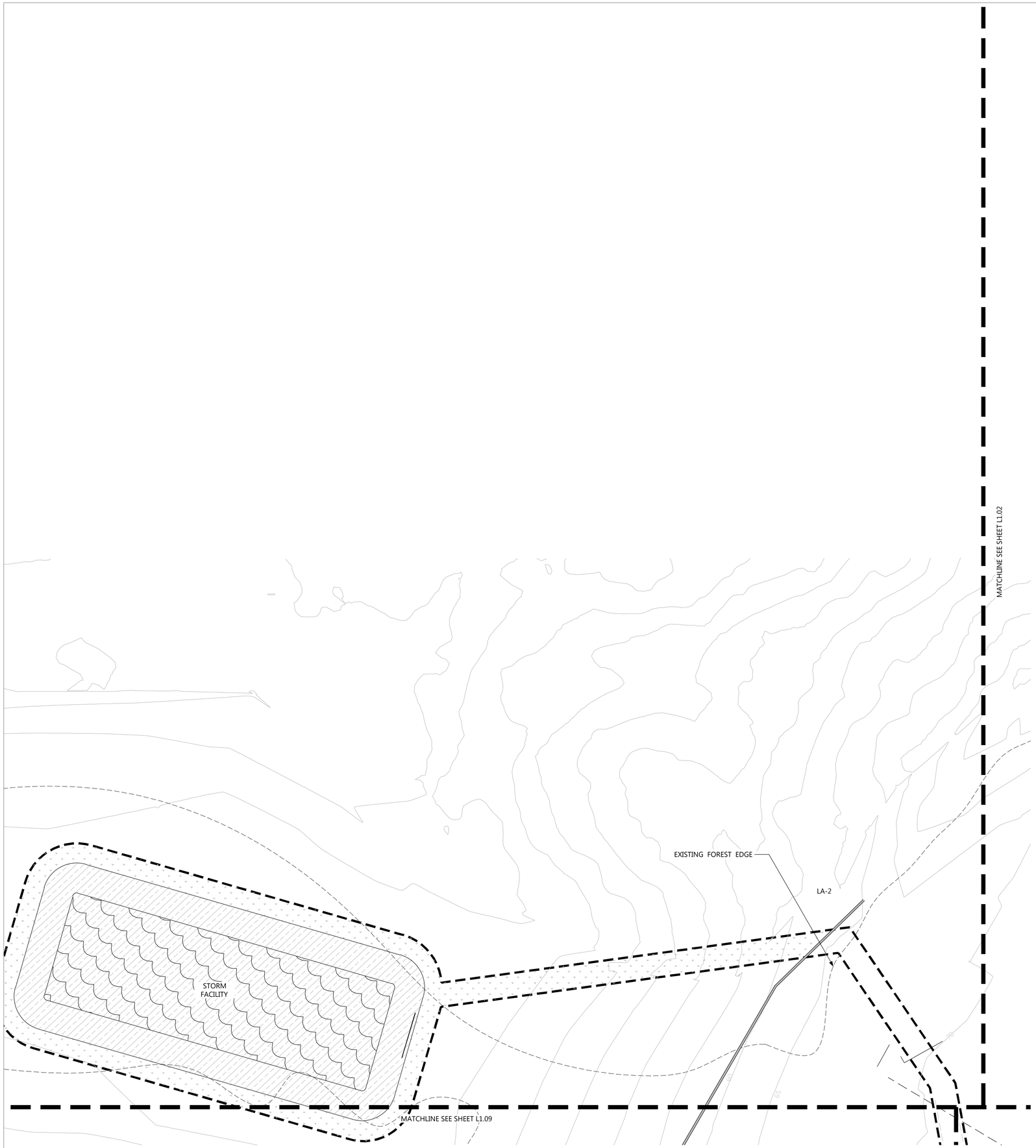
revisions	
BP 1 ADD 01	04/19/2018
project #	17007

Overall Site Plan and General Notes

L1.00



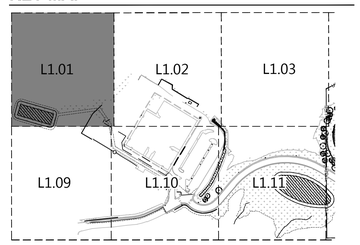
LEGEND

- UGB — UGB EXPANSION AREA
- LIMIT OF WORK
- EXISTING FOREST EDGE
- CHAINLINK FENCE Size as shown
- CONCRETE PAVING - PEDESTRIAN
- PB — IRRIGATED PLANT BED With bark mulch See L1.00 for Topsoil Placement Schedule — BP 1 ADD 01
- SW — STORMWATER LANDSCAPE With rock mulch See L1.00 for Topsoil Placement Schedule
- LA-1 — IRRIGATED SEEDED LAWN See L1.00 for Topsoil Placement Schedule
- LA-2 — UNIRRIGATED SEEDED MEADOW See L1.00 for Topsoil Placement Schedule
- FUTURE BID PACKAGE
- GR — GRAVEL DRIVE See Civil
- AF — IRRIGATED ATHLETIC FIELD TURF See L1.00 for Topsoil Placement Schedule — BP 1 ADD 01
- SY — SYNTHETIC TRACK SURFACE
- UNIRRIGATED MITIGATION PLANT BED See L1.00 for Topsoil Placement Schedule — BP 1 ADD 01
- PROPOSED TREES 1 1/2" caliper min.
- BIKE RACK
- TD AD CB DD — TRENCH DRAIN, AREA DRAIN, CATCH BASIN, DECK DRAIN See Civil
- PERF — PERF — PERFORATED PIPE
- SITE AND FIELD LIGHTING See Electrical

NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



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project #	17007

Site Plan

L1.01

EXISTING WETLAND

EXISTING STREAM

EXISTING FOREST EDGE

LA-2

MATCHLINE SEE SHEET L1.01

MATCHLINE SEE SHEET L1.03

FUTURE BID PACKAGE

EXISTING ELEMENTARY SCHOOL BUILDING

PROPOSED MITIGATION AREA

MATCHLINE SEE SHEET L1.10

LEGEND

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- LIMIT OF WORK
- EXISTING FOREST EDGE
- CHAINLINK FENCE — Size as shown
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- PB — IRRIGATED PLANT BED — With bark mulch — See L1.00 for Topsoil Placement Schedule — BP 1 ADD 01
- SW — STORMWATER LANDSCAPE — With rock mulch — See L1.00 for Topsoil Placement Schedule
- LA-1 — IRRIGATED SEEDED LAWN — See L1.00 for Topsoil Placement Schedule
- LA-2 — UNIRRIGATED SEEDED MEADOW — See L1.00 for Topsoil Placement Schedule
- GR — GRAVEL DRIVE — See Civil
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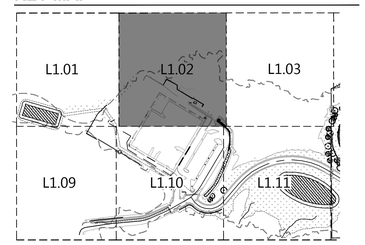
NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



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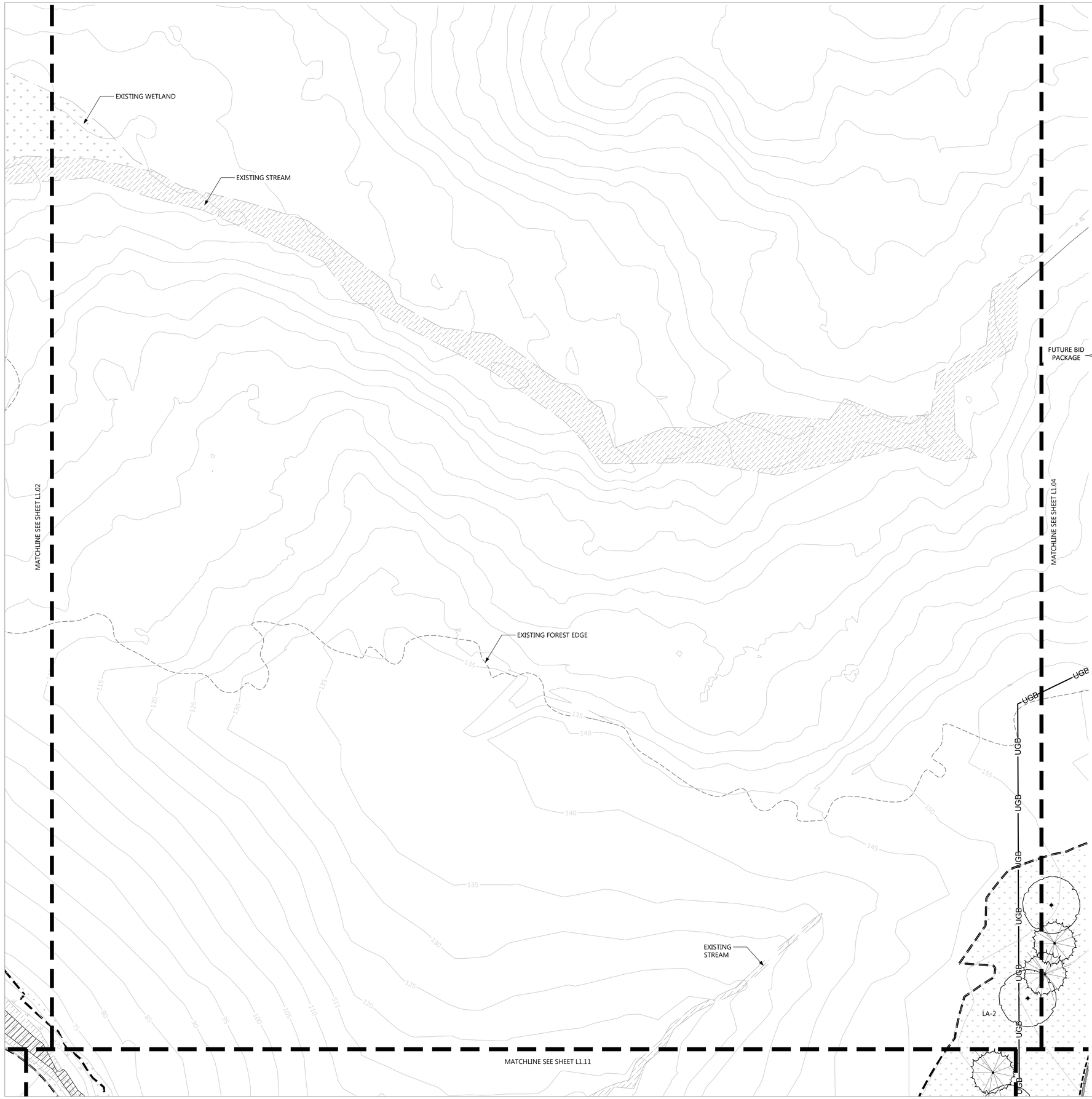
Site Plan

L1.02



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- PB — IRRIGATED PLANT BED — With bark mulch — See L1.00 for Topsoil Placement Schedule — BP 1 ADD 01
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- LA-2 — UNIRRIGATED SEEDED MEADOW — See L1.00 for Topsoil Placement Schedule
- GR — GRAVEL DRIVE — See Civil
- AF — IRRIGATED ATHLETIC FIELD TURF — See L1.00 for Topsoil Placement Schedule — BP 1 ADD 01
- SY — SYNTHETIC TRACK SURFACE
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- PROPOSED TREES — 1 1/2" caliper min.
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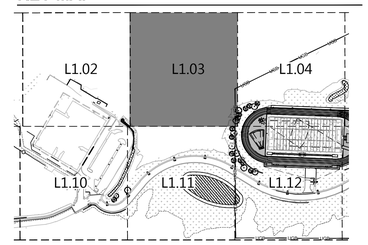
- TD AD CB DD — TRENCH DRAIN, AREA DRAIN, CATCH BASIN, DECK DRAIN — See Civil
- PERF — PERF — PERFORATED PIPE
- SITE AND FIELD LIGHTING — See Electrical

FUTURE BID PACKAGE

NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



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Site Plan

L1.03

EXISTING STREAM

MATCHLINE SEE SHEET L1.03

MATCHLINE SEE SHEET L1.05

UGB

WEYERHAEUSER
REFORESTATION
By Others
Protect to Remain

CANOPY DRIPLINE

EXISTING FOREST EDGE

EXISTING STREAM

FUTURE BID
PACKAGE

WEYERHAEUSER
REFORESTATION
By Others
Protect to Remain

SEE ENLARGEMENT PLAN
SHEETS L9.00 AND L9.01
(FUTURE BID PACKAGE) FOR
TRACK AND FIELD FACILITY
SITE AND GRADING INFORMATION

LA-2

MATCHLINE SEE SHEET L1.12

LEGEND

- UGB — UGB EXPANSION AREA
- LIMIT OF WORK
- EXISTING FOREST EDGE
- CHAINLINK FENCE
  Size as shown
- CONCRETE PAVING - PEDESTRIAN
- PB — IRRIGATED PLANT BED
  With bark mulch
  See L1.00 for Topsoil
  Placement Schedule
  BP 1 ADD 01
- SW — STORMWATER LANDSCAPE
  With rock mulch
  See L1.00 for Topsoil
  Placement Schedule
- LA-1 — IRRIGATED SEEDED LAWN
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  Placement Schedule
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  See L1.00 for Topsoil
  Placement Schedule
- GR — GRAVEL DRIVE
  See Civil
- AF — IRRIGATED ATHLETIC FIELD TURF
  See L1.00 for Topsoil Placement
  Schedule
  BP 1 ADD 01
- SY — SYNTHETIC TRACK SURFACE
- UNIRRIGATED MITIGATION
  PLANT BED
  See L1.00 for Topsoil Placement
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  BP 1 ADD 01
- PROPOSED TREES
  1 1/2" caliper min.
- BIKE RACK
- TD AD CB DD — TRENCH DRAIN, AREA DRAIN,
  CATCH BASIN, DECK DRAIN
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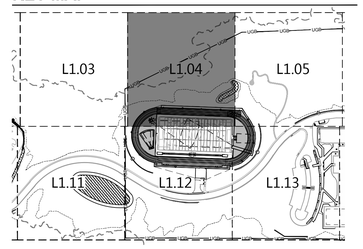
- PERF — PERF — PERFORATED PIPE
- SITE AND FIELD LIGHTING
  See Electrical

NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



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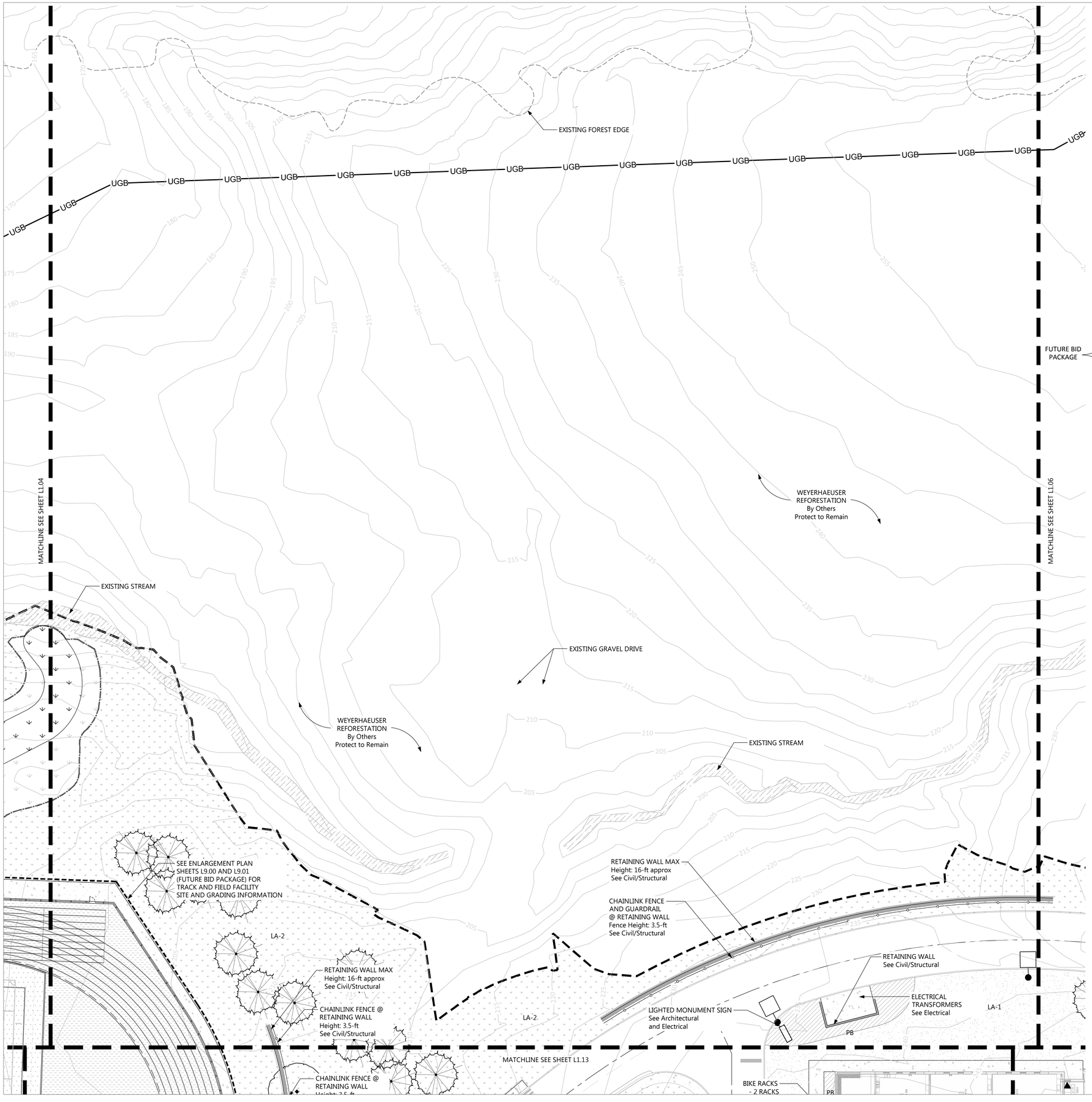
Site Plan

L1.04



LEGEND

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- LA-1 — IRRIGATED SEEDED LAWN
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  See Civil
- AF — IRRIGATED ATHLETIC FIELD TURF
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  Schedule
  BP 1
  ADD 01
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  PLANT BED
  See L1.00 for Topsoil Placement
  Schedule
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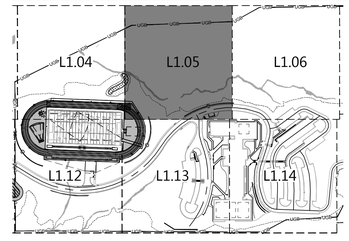
  See Civil
- PERF PERF — PERFORATED PIPE
- SITE AND FIELD LIGHTING
  See Electrical

FUTURE BID PACKAGE

NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



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Site Plan

L1.05

UGB

EXISTING FOREST EDGE

WEYERHAEUSER
REFORESTATION
By Others
Protect to Remain

MATCHLINE SEE SHEET L1.05

MATCHLINE SEE SHEET L1.07

FUTURE BID PACKAGE

EXISTING STREAM

LA-1

LA-2

CONCRETE
MOW STRIP
Width: 12"

MATCHLINE SEE SHEET L1.14

LEGEND

- UGB — UGB EXPANSION AREA
- LIMIT OF WORK
- EXISTING FOREST EDGE
- CHAINLINK FENCE
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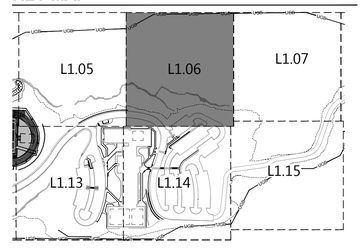
  See Civil
- PERF PERF — PERFORATED PIPE
- SITE AND FIELD LIGHTING
  See Electrical

NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



1" = 20'-0"

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New Middle School / High School
Seaside School District
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phase	Bid Package 1
date	4/5/2018
revisions	
BP 1 ADD 01	04/19/2018
project #	17007

Site Plan

L1.06

UGB

MATCHLINE SEE SHEET L1.06

MATCHLINE SEE SHEET L1.08

FUTURE BID PACKAGE

WEYERHAEUSER REFORESTATION
By Others
Protect to Remain

GRAVEL DRIVE
See Civil

LA-2

MATCHLINE SEE SHEET L1.15

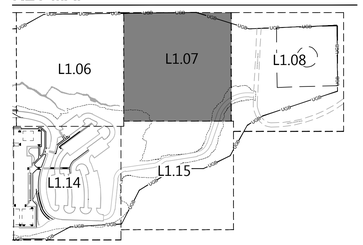
LEGEND

- UGB — UGB EXPANSION AREA
- LIMIT OF WORK
- EXISTING FOREST EDGE
- CHAINLINK FENCE Size as shown
- CONCRETE PAVING - PEDESTRIAN
- PB — IRRIGATED PLANT BED With bark mulch See L1.00 for Topsoil Placement Schedule — BP 1 ADD 01
- SW — STORMWATER LANDSCAPE With rock mulch See L1.00 for Topsoil Placement Schedule
- LA-1 — IRRIGATED SEEDED LAWN See L1.00 for Topsoil Placement Schedule
- LA-2 — UNIRRIGATED SEEDED MEADOW See L1.00 for Topsoil Placement Schedule
- GR — GRAVEL DRIVE See Civil
- AF — IRRIGATED ATHLETIC FIELD TURF See L1.00 for Topsoil Placement Schedule — BP 1 ADD 01
- SY — SYNTHETIC TRACK SURFACE
- UNIRRIGATED MITIGATION PLANT BED See L1.00 for Topsoil Placement Schedule — BP 1 ADD 01
- PROPOSED TREES 1 1/2" caliper min.
- BIKE RACK
- TD AD CB DD — TRENCH DRAIN, AREA DRAIN, CATCH BASIN, DECK DRAIN See Civil
- PERF PERF — PERFORATED PIPE
- SITE AND FIELD LIGHTING See Electrical

NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



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Site Plan

L1.07

UGB

WEYERHAEUSER
REFORESTATION
By Others
Protect to Remain

MATCHLINE SEE SHEET L1.07

POTENTIAL
FUTURE RESERVOIR
SITE
By Others

LA-2

GRAVEL DRIVE
See Civil

EXISTING GRAVEL
DRIVE

WEYERHAEUSER
REFORESTATION
By Others
Protect to Remain

WEYERHAEUSER
REFORESTATION
By Others
Protect to Remain

LEGEND

- UGB — UGB EXPANSION AREA
- LIMIT OF WORK
- EXISTING FOREST EDGE
- CHAINLINK FENCE
  Size as shown
- CONCRETE PAVING - PEDESTRIAN
- FUTURE BID PACKAGE
- PB — IRRIGATED PLANT BED
  With bark mulch
  See L1.00 for Topsoil
  Placement Schedule
  BP 1 ADD 01
- SW — STORMWATER LANDSCAPE
  With rock mulch
  See L1.00 for Topsoil
  Placement Schedule
- LA-1 — IRRIGATED SEEDED LAWN
  See L1.00 for Topsoil
  Placement Schedule
- LA-2 — UNIRRIGATED SEEDED MEADOW
  See L1.00 for Topsoil
  Placement Schedule
- GR — GRAVEL DRIVE
  See Civil
- AF — IRRIGATED ATHLETIC FIELD TURF
  See L1.00 for Topsoil Placement
  Schedule
  BP 1 ADD 01
- SY — SYNTHETIC TRACK SURFACE
- UNIRRIGATED MITIGATION
  PLANT BED
  See L1.00 for Topsoil Placement
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- PROPOSED TREES
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- TD AD CB DD — TRENCH DRAIN, AREA DRAIN, CATCH BASIN, DECK DRAIN
  See Civil
- PERF PERF — PERFORATED PIPE
- SITE AND FIELD LIGHTING
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NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

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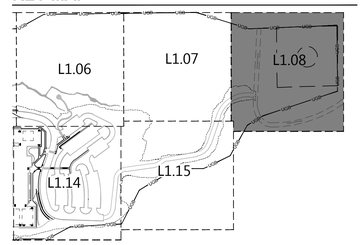

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revisions	
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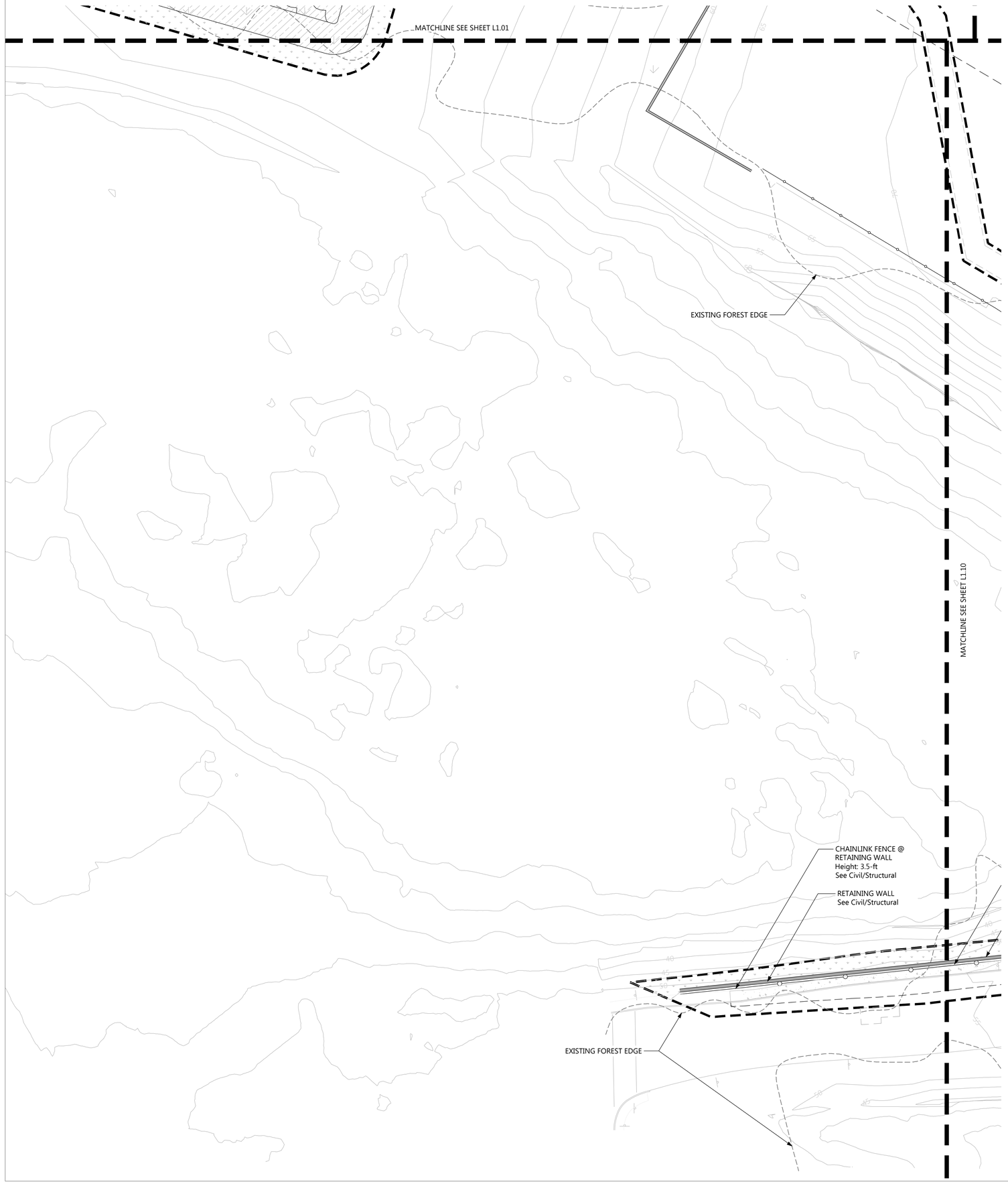
Site Plan

L1.08



LEGEND

- UGB — UGB EXPANSION AREA
- LIMIT OF WORK
- EXISTING FOREST EDGE
- CHAINLINK FENCE
  Size as shown
- CONCRETE PAVING - PEDESTRIAN
- PB — IRRIGATED PLANT BED
  With bark mulch
  See L1.00 for Topsoil
  Placement Schedule
  (BP 1 ADD 01)
- SW — STORMWATER LANDSCAPE
  With rock mulch
  See L1.00 for Topsoil
  Placement Schedule
- LA-1 — IRRIGATED SEEDED LAWN
  See L1.00 for Topsoil
  Placement Schedule
- LA-2 — UNIRRIGATED SEEDED MEADOW
  See L1.00 for Topsoil
  Placement Schedule

FUTURE BID PACKAGE

- GR — GRAVEL DRIVE
  See Civil
- AF — IRRIGATED ATHLETIC FIELD TURF
  See L1.00 for Topsoil Placement
  Schedule
  (BP 1 ADD 01)
- SY — SYNTHETIC TRACK SURFACE
- UNIRRIGATED MITIGATION
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  See L1.00 for Topsoil Placement
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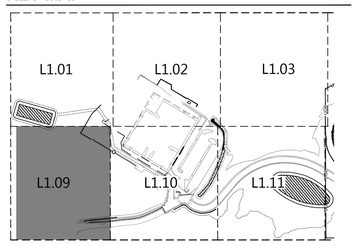
- PROPOSED TREES
  1 1/2" caliper min.
- BIKE RACK
- TD AD CB DD — TRENCH DRAIN, AREA DRAIN, CATCH BASIN, DECK DRAIN
  See Civil
- PERF — PERF — PERFORATED PIPE
- SITE AND FIELD LIGHTING
  See Electrical

NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



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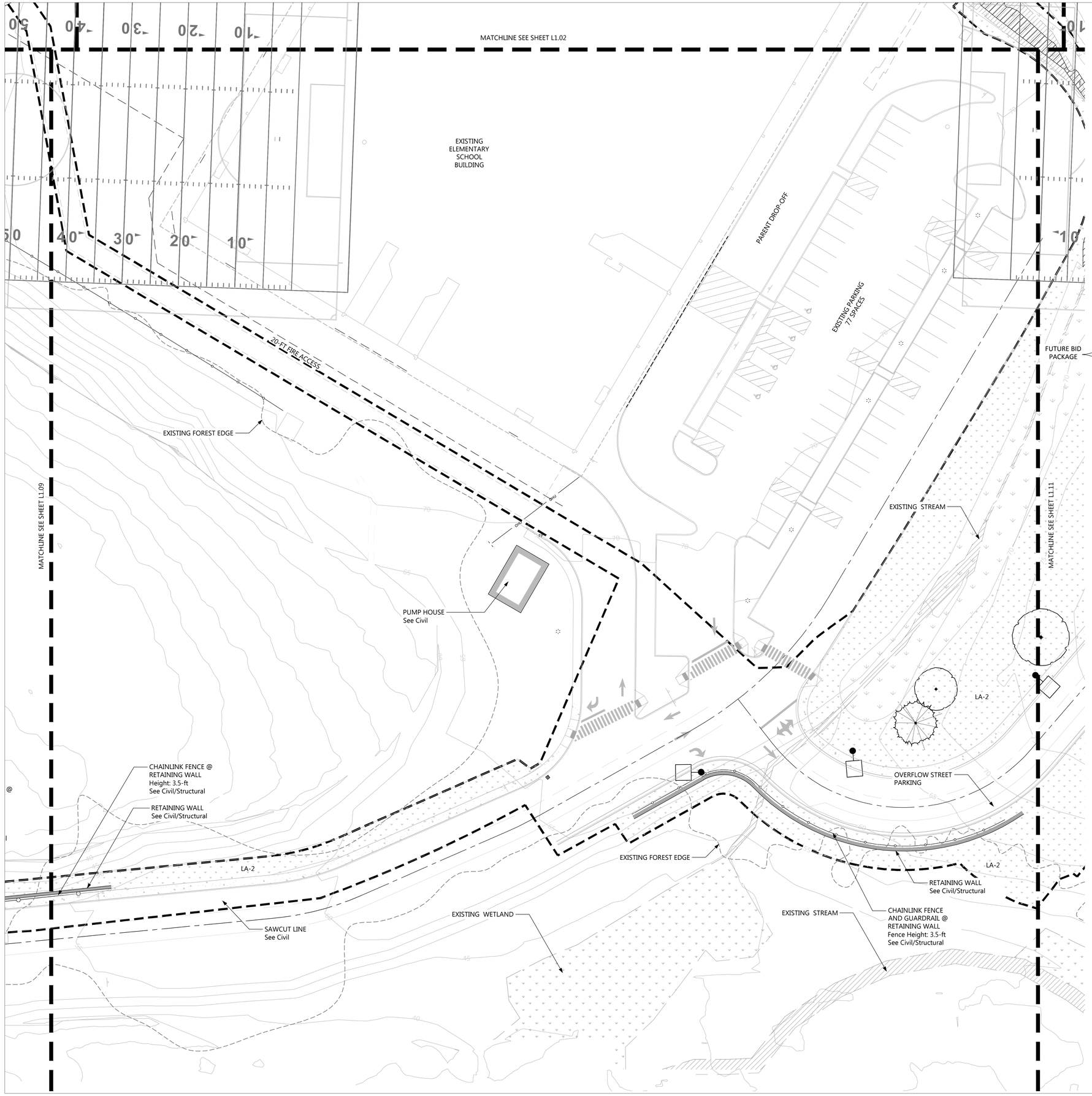
Site Plan

L1.09



LEGEND

- UGB — UGB EXPANSION AREA
- LIMIT OF WORK
- EXISTING FOREST EDGE
- CHAINLINK FENCE Size as shown
- CONCRETE PAVING - PEDESTRIAN
- PB — IRRIGATED PLANT BED With bark mulch See L1.00 for Topsoil Placement Schedule; STORMWATER LANDSCAPE With rock mulch See L1.00 for Topsoil Placement Schedule — BP 1 ADD 01
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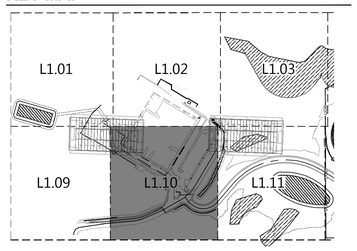
NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



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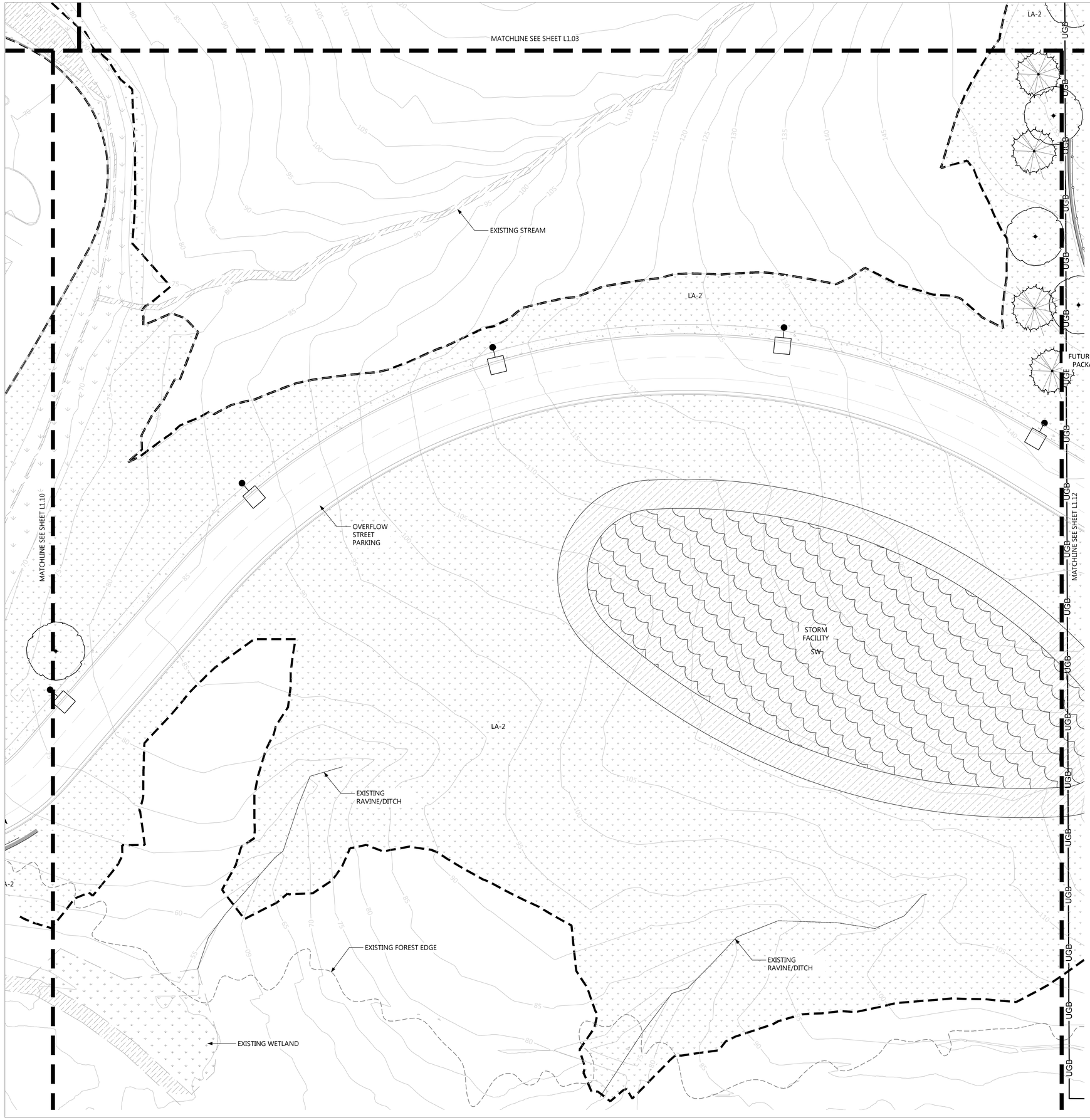
Site Plan

L1.10



LEGEND

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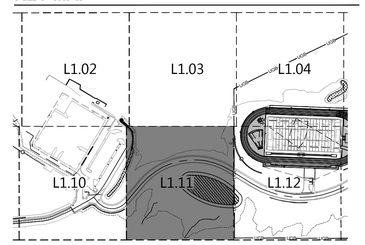
NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



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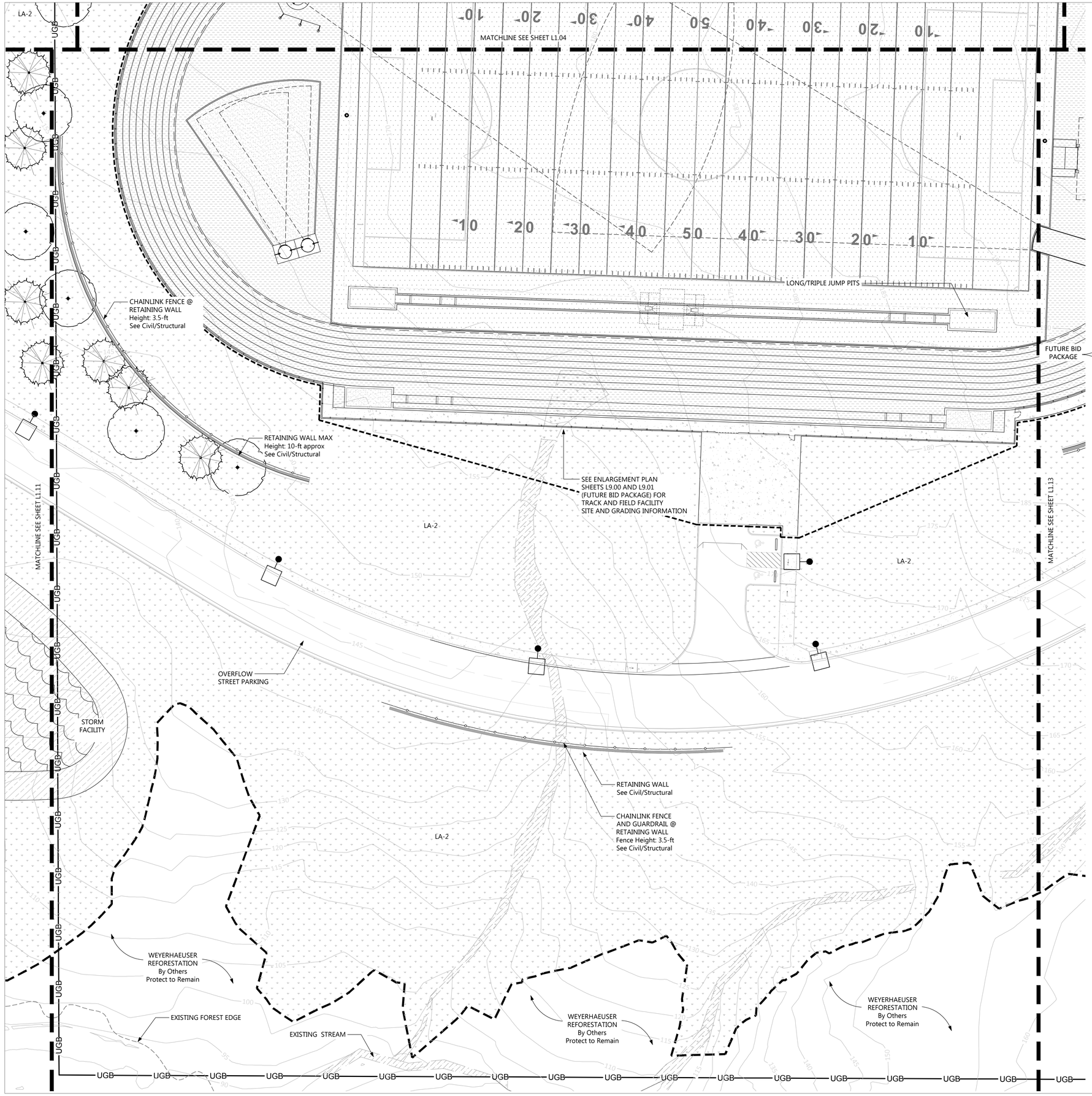
Site Plan

L1.11



LEGEND

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NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

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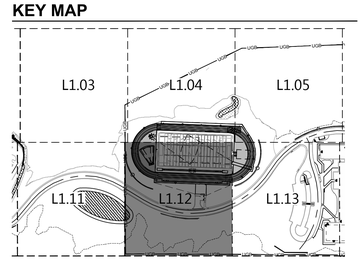

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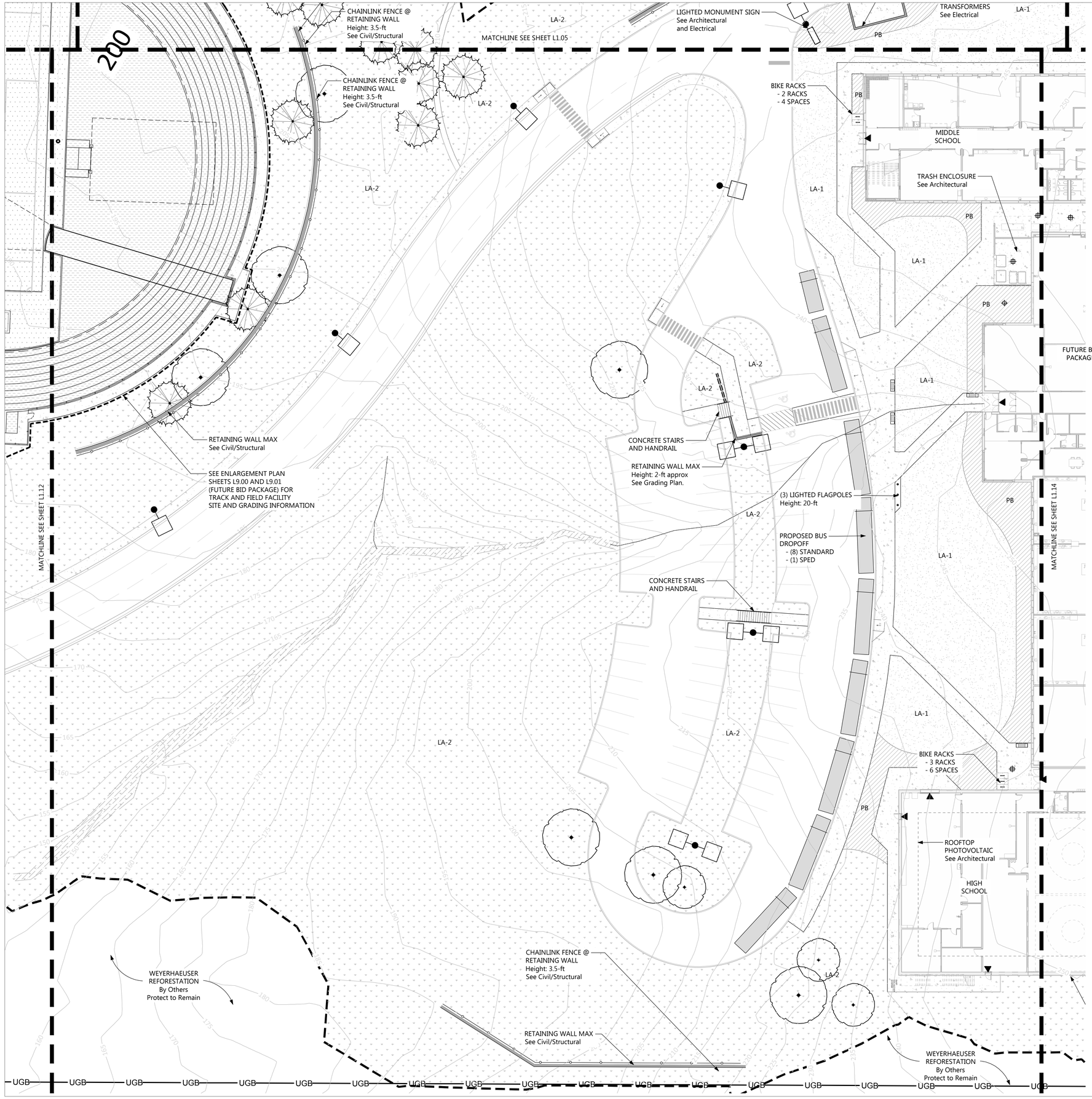
Site Plan

L1.12



LEGEND

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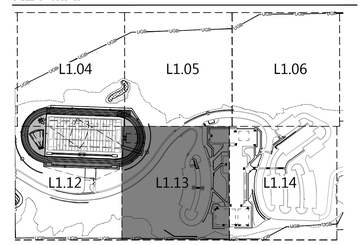
- TD AD CB DD — TRENCH DRAIN, AREA DRAIN, CATCH BASIN, DECK DRAIN See Civil
- PERF PERF — PERFORATED PIPE
- SITE AND FIELD LIGHTING See Electrical
- SCHOOL BUS -STANDARD
- SCHOOL BUS - SPED

NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



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Site Plan

L1.13

MATCHLINE SEE SHEET L1.06

CONCRETE MOW STRIP Width: 12"

MIDDLE SCHOOL

ROOFTOP PHOTOVOLTAIC See Architectural

RETAINING WALL MAX Height: 6-ft approx See Civil/Structural

CHAINLINK FENCE @ RETAINING WALL Height: 3.5-ft See Civil/Structural

PROPOSED BUS DROPOFF - (1) SPED

BIKE RACKS - 4 RACKS - 8 SPACES

CONCRETE STAIRS AND HANDRAIL

CONCRETE STAIRS AND HANDRAIL

RIVER ROCK CONVEYANCE CHANNEL See Grading Plan

MATCHLINE SEE SHEET L1.13

FUTURE BID PACKAGE

MATCHLINE SEE SHEET L1.15

GRAVEL DRIVE See Civil

RIVER ROCK CONVEYANCE CHANNEL See Grading Plan

BIKE RACKS - 4 RACKS - 8 SPACES

ROOFTOP PHOTOVOLTAIC See Architectural

HIGH SCHOOL

CONCRETE MOW STRIP Width: 12"

EXISTING FOREST EDGE

WEYERHAEUSER REFORESTATION By Others Protect to Remain

UGB

LA-1

LA-2

PB

LEGEND

- UGB — UGB EXPANSION AREA
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NOTES

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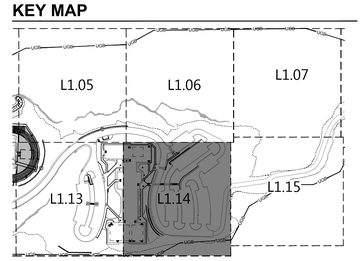

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Site Plan

L1.14

MATCHLINE SEE SHEET L1.07

MATCHLINE SEE SHEET L1.14

LA-2

WEYERHAEUSER
REFORESTATION
By Others
Protect to Remain

GRAVEL DRIVE
See Civil

UGB

FUTURE BID
PACKAGE

LEGEND

- UGB — UGB EXPANSION AREA
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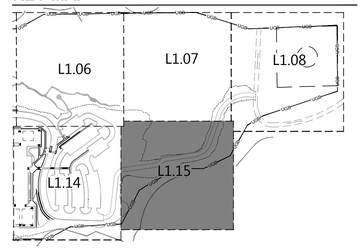
- SW — STORMWATER LANDSCAPE — With rock mulch — See L1.00 for Topsoil Placement Schedule
- LA-1 — IRRIGATED SEEDED LAWN — See L1.00 for Topsoil Placement Schedule
- LA-2 — UNIRRIGATED SEEDED MEADOW — See L1.00 for Topsoil Placement Schedule
- GR — GRAVEL DRIVE — See Civil
- AF — IRRIGATED ATHLETIC FIELD TURF — See L1.00 for Topsoil Placement Schedule — BP 1 ADD 01
- SY — SYNTHETIC TRACK SURFACE
- UNIRRIGATED MITIGATION PLANT BED — See L1.00 for Topsoil Placement Schedule — BP 1 ADD 01
- PROPOSED TREES — 1 1/2" caliper min.
- BIKE RACK
- TD AD CB DD — TRENCH DRAIN, AREA DRAIN, CATCH BASIN, DECK DRAIN — See Civil
- PERF — PERF — PERFORATED PIPE
- SITE AND FIELD LIGHTING — See Electrical

NOTES

1. SEE SHEET L1.00 FOR GENERAL NOTES

KEY MAP



1" = 20'-0"

0' 10' 20' 40'

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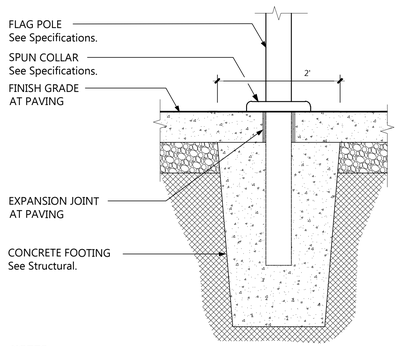
revisions	
BP 1 ADD 01	04/19/2018
project #	17007

Site Plan

L1.15

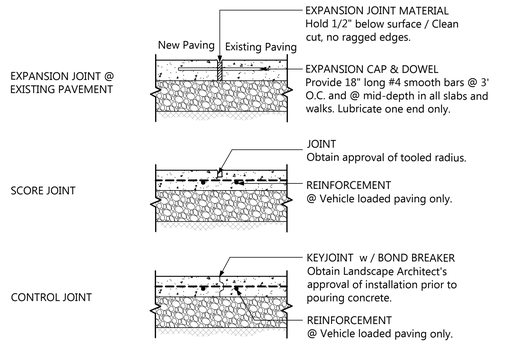


NOTES

1. See specifications for flagpole product information.
2. Install per manufacturer's instructions.

FLAGPOLE BASE

NTS 4

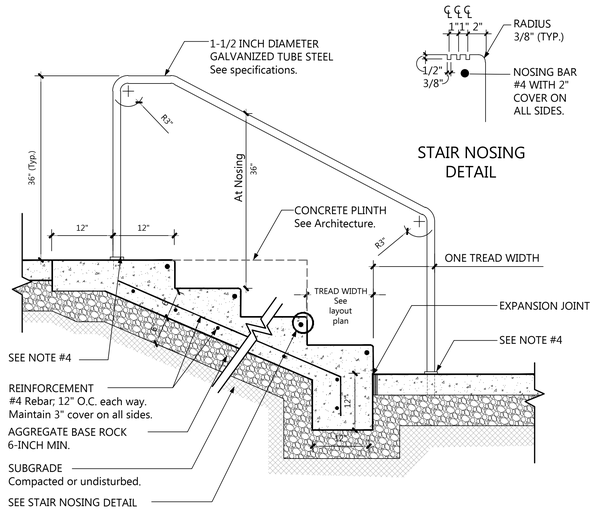


NOTES

1. Locate joints where shown on Drawings and as Specified.
2. Provide sample of concrete joint finishing tools for approval of joint radius and depth.

CONCRETE JOINTS

NTS 1

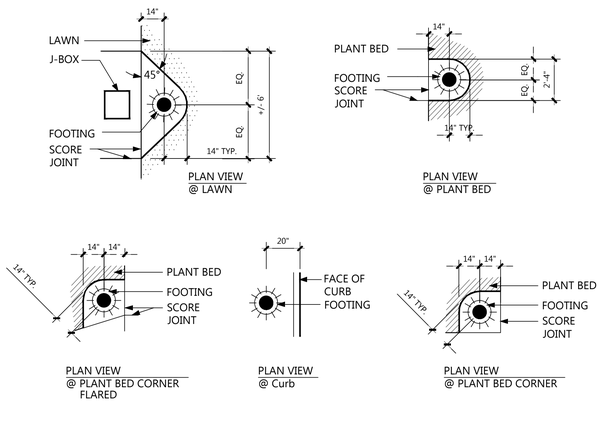


NOTES

1. See grading plan for stair riser/tread relationship
2. Construct stair nosing to conform with ADA standard '4.93' nosing.
3. Provide positive drainage at each stair tread. 2% maximum slope.
4. Core drill holes into concrete sidewalk to receive handrail posts. Grout in place. Install cover shoe at surface and epoxy in place.

CONCRETE STAIRS AND HANDRAIL

NTS 2



NOTES

1. Set lamp post per manufacturer's template.

PEDESTRIAN LIGHT POLE @ CONCRETE PAVING

NTS 3

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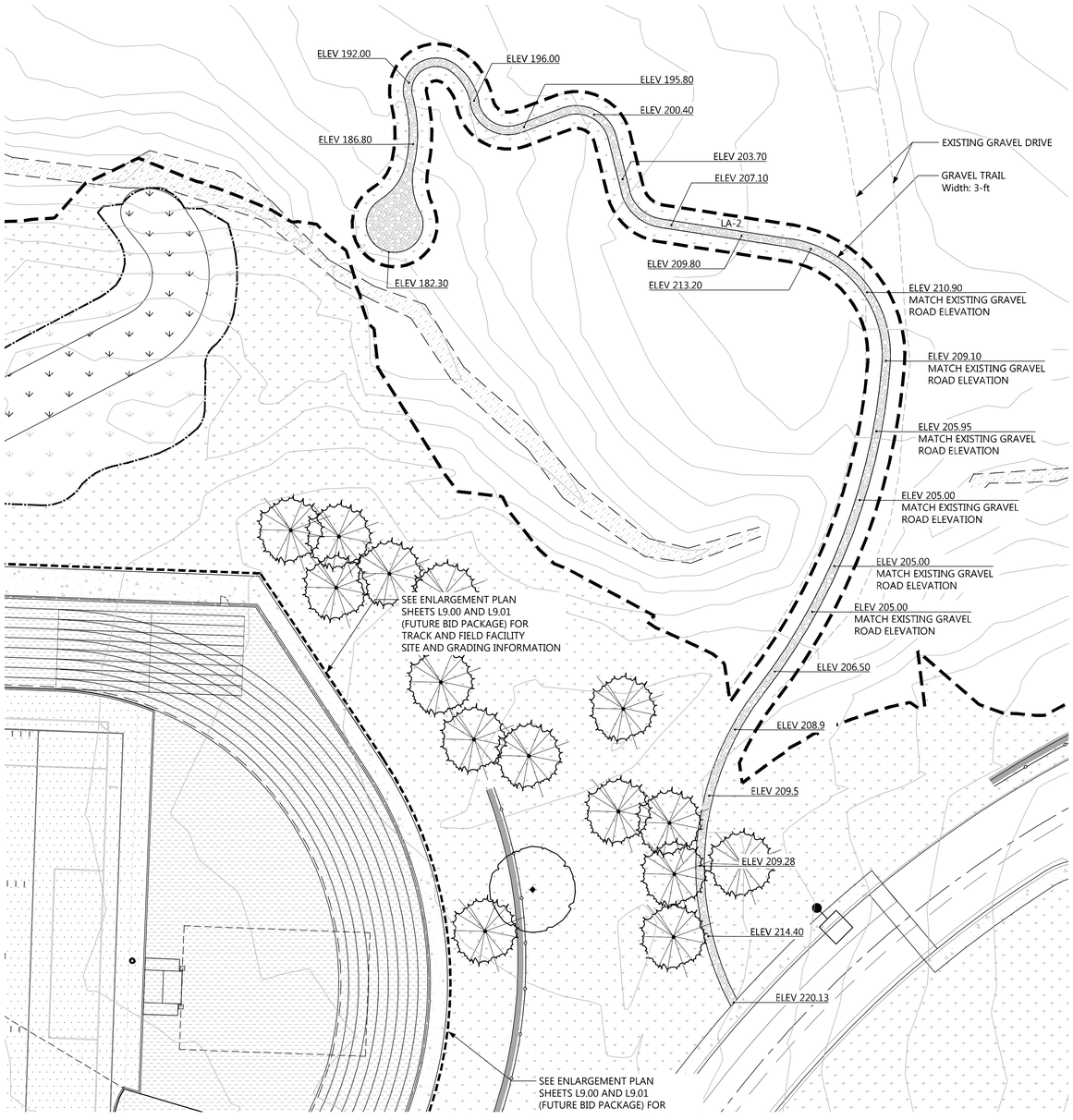
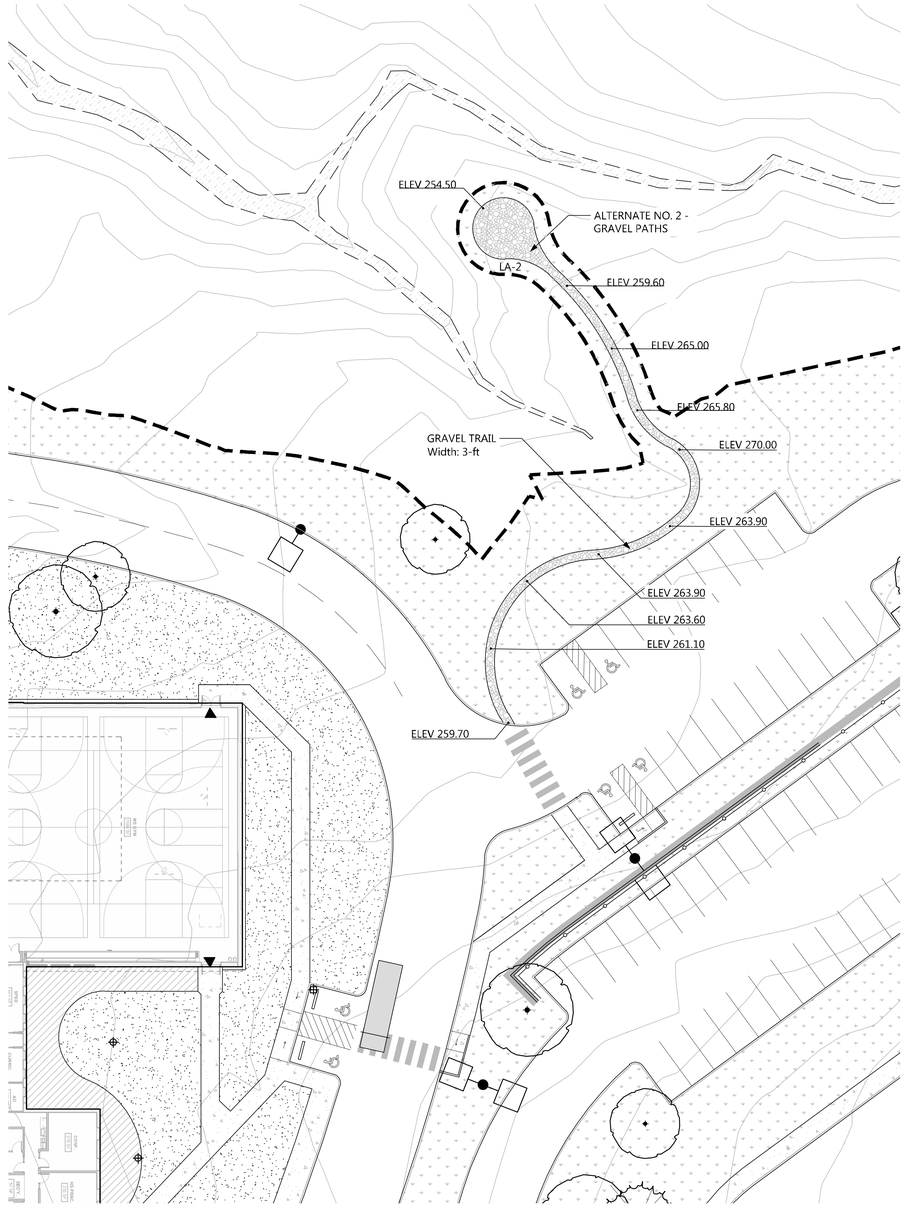
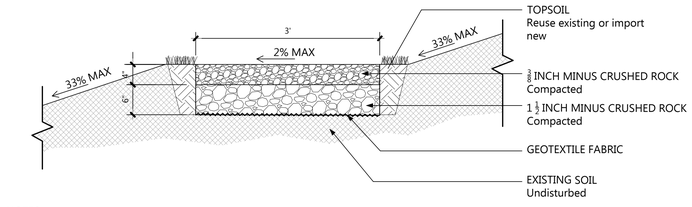
Site Details

L8.00







NOTES

1. See Grading Plan for slopes on path.
2. Install a minimum cross slope of 0.5%.
3. Overlap edges of geotextile fabric a minimum of 12 inches.

GRAVEL PATH
SECTION — NTS — 1

1" = 20'-0"

0' 10' 20' 40'

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project #	17007

Alternate No. 2:
Gravel Paths - Site and GradingPlan

L10.00

New Middle School / High School

Seaside School District

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E3.22	FLOOR PLAN LEVEL 2 - SECTOR B - POWER
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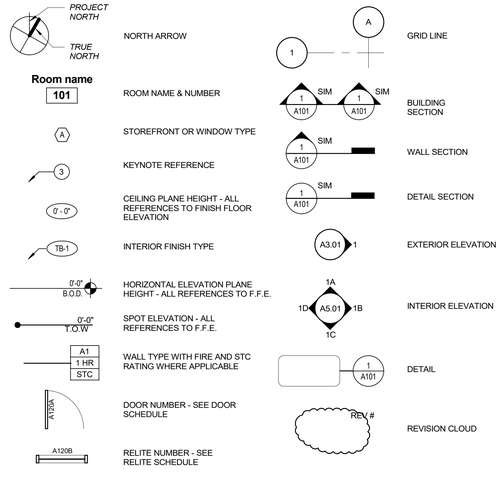
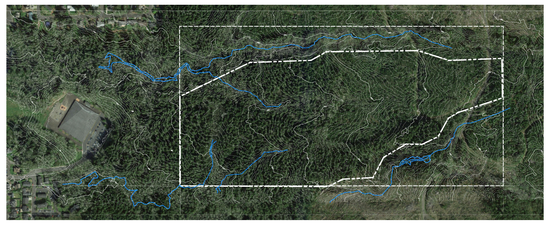
ARCHITECTURAL ABBREVIATIONS

∠	ANGLE	(E)	EXISTING	INSUL	INSULATION	PL	PROPERTY LINE	UNFIN	UNFINISHED
&	AND	EA	EACH	INT	INTERIOR	PLAS	PLASTER	UNO	UNLESS NOTED OTHERWISE
AB	ANCHOR BOLT	EF	EXHAUST FAN			PLYWD	PLYWOOD		
ACT	ACOUSTICAL CEILING TILE	EJ	EXPANSION JOINT	JAN	JANITOR	PSF	PER SQUARE FOOT	VB	VAPOR BARRIER
ADD	ADDENDUM	EL	ELEVATION	JT	JOINT	PT	PRESSURE TREATED	VERT	VERTICAL
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	ELEC	ELECTRICAL	JST	JOIST	PVMT	PAVEMENT	VEST	VESTIBULE
		EOS	EDGE OF SLAB					VFY	VERIFY
AFF	ABOVE FINISH FLOOR	ENGR	ENGINEER	L	LENGTH	R	RADIUS		
ALS	AREA LIGHT STANDARD	EQ	EQUAL	LAV	LAVATORY	RD	ROOF DRAIN	W/	WITH
ALUM	ALUMINUM	EQUIP	EQUIPMENT	LB	LAG BOLT	REF	REFERENCE	W/O	WITHOUT
ANOD	ANODIZED	ES	EACH SIDE	LKR	LOCKER	REFR	REFRIGERATOR	WC	WATER CLOSET
		EW	EACH WAY	LS	LANDSCAPING	REQ'D	REQUIRED	WD	WOOD
BD	BOARD	EXP	EXPANSION	LVR	LOUVER	REV	REVISE OR REVISION	WF	WIDE FLANGE
BLDG	BUILDING	EXT	EXTERIOR			RM	ROOM	WH	WATER HEATER
BLKG	BLOCKING			MATL	MATERIAL	RO	ROUGH OPENING	WP	WATERPROOFING
BM	BENCH MARK	FA	FIRE ALARM	MB	MARKERBOARD	RCP	REFLECTED CEILING PLAN	WRB	WATER-RESISTIVE BARRIER
BOT	BOTTOM	FD	FLOOR DRAIN	MAX	MAXIMUM			WT	WEIGHT
BTWN	BETWEEN	FDN	FOUNDATION	MECH	MECHANICAL	SAHTS	SELF ADHERED HIGH TEMPERATURE SHEET		
		FE	FIRE EXTINGUISHER	MED	MEDIUM				
C	CHANNEL	FEC	FIRE EXTINGUISHER CABINET	MEZZ	MEZZANINE	SAM	SELF-ADHERED MEMBRANE		
CB	CATCH BASIN	FECB	FIRE EXTINGUISHER CABINET W/ BLANKET	MFR	MANUFACTURER	SC	SOLID CORE		
CCTV	CLOSED CIRCUIT TV			MIN	MINIMUM	SECT	SECTION		
CG	CORNER GUARD	FF	FINISH FLOOR	MIR	MIRROR	SF	SQUARE FOOT		
CIP	CAST IN PLACE CONCRETE	FIN	FINISH	MISC	MISCELLANEOUS	SHTG	SHEATHING		
CLG	CEILING	FL	FLOOR	MTD	MOUNTED	SHWR	SHOWER		
CLR	CLEAR	FO	FACE OF	MS	MIDDLE SCHOOL	SHT	SHEET		
CJ	CONTROL JOINT	FOC	FACE OF CONCRETE	MTL	METAL	SIM	SIMILAR		
CMU	CONCRETE MASONRY UNIT	FOF	FACE OF FINISH			SJ	SEISMIC JOINT		
CONT	CONTINUOUS	FOM	FACE OF MASONRY	(N)	NEW	SM	SHEET METAL		
CORR	CORRIDOR	FOS	FACE OF STUD	NA	NOT APPLICABLE	SQ	SQUARE		
CR	CLASSROOM	FRT	FIRE RETARDANT TREATED	NIC	NOT IN CONTRACT	SS	STAINLESS STEEL		
CSJ	CONSTRUCTION JOINT	FTG	FOOTING	NOM	NOMINAL	STD	STANDARD		
CSMT	CASEMENT	FURR	FURRING	NS	NELSON STUD	STL	STEEL		
CT	CERAMIC TILE			NTS	NOT TO SCALE	STOR	STORAGE		
CTR	CENTER	GA	GAUGE/GAGE			STRUCT	STRUCTUAL		
	CENTERLINE	GALV	GALVANIZED	OA	OVERALL	SUSP	SUSPENDED		
		GB	GRAB BAR	OC	ON CENTER				
DBL	DOUBLE	GC	GENERAL CONTRACTOR	OD	OVERFLOW DRAIN	T/M	TO MATCH		
DTL	DETAIL	GL	GLASS	OD	OUTSIDE DIAMETER	T	TEMPERED GLAZING		
DF	DRINKING FOUNTAIN	GND	GROUND	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	TC	TOP OF CURB		
DIA	DIAMETER	GVP	GYPSUM VENEER PLASTER			TEL	TELEPHONE		
DIAG	DIAGONAL	GWB	GYPSUM WALL BOARD	OFOI	OWNER FURNISED OWNER INSTALLED	T&G	TONGUE AND GROOVE		
DIM	DIMENSION					THK	THICK		
DISP	DISPENSER	HB	HOSE BIBB	OH	OVERHEAD	TO	TOP OF		
DN	DOWN	HC	HANDICAP	OPNG	OPENING	TOD	TOP OF DECK		
DP	DAMPROOFING	HM	HOLLOW METAL	OPP	OPPOSITE	TOS	TOP OF STRUCTURE		
DR	DOOR	HPC	HIGH PERFORMANCE COATING	OS	OUTSIDE	TJ	TOOL JOINT		
DS	DOWNSPOUT	HVAC	HEATING, VENTILATION AND AIR CONDITIONING			TP	TOILET PAPER		
DWG	DRAWING					TS	TUBE STEEL		
		HS	HIGH SCHOOL			TYP	TYPICAL		
		HW	HOT WATER						

SYMBOLS





VICINITY MAP
2000 Spruce Drive, Seaside, Oregon 97138

BRIC ARCHITECTURE, INC.

Project #17007
4/6/2018
New Middle School / High School
Design Development

Design Development

VOLUME 2 OF 2

C:\BRIC Projects\17007 SSD-MSHS_nick.sackos.rvt

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S0.05	SPECIAL INSPECTION AND TESTING CONT.	X
S0.06	SPECIAL INSPECTION AND TESTING CONT.	X
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S2.23	FRAMING PLAN LEVEL 2 - SECTOR C	X
S2.31	FRAMING PLAN LEVEL 3 - SECTOR A	X
S2.32	FRAMING PLAN LEVEL 3 - SECTOR B	X
S2.33	FRAMING PLAN LEVEL 3 - SECTOR C	X
S2.41	FRAMING PLAN ROOF - SECTOR A	X
S2.42	FRAMING PLAN ROOF - SECTOR B	X
S2.43	FRAMING PLAN ROOF - SECTOR C	X
S3.01	BRACED FRAME ELEVATIONS SECTOR C	X
S3.02	BRACED FRAME ELEVATIONS SECTOR B	X
S3.10	BRACED FRAME DETAILS	X
S3.11	BRACED FRAME DETAILS	X
S3.21	CMU WALL ELEVATIONS - SECTOR A	X
S3.22	CMU WALL ELEVATIONS - SECTOR A	X
S3.23	CMU WALL ELEVATIONS - SECTOR C	X
S3.24	CMU WALL ELEVATIONS - SECTOR C	X
S3.25	CMU WALL ELEVATIONS - SECTOR C	X
S3.26	CMU WALL ELEVATION - SECTOR C	X
S5.01	CONCRETE DETAILS	X
S5.02	CONCRETE DETAILS	X
S6.01	STEEL DETAILS	X
S6.02	STEEL DETAILS	X
S6.03	STEEL DETAILS	X
S6.04	STEEL DETAILS	X
S6.05	STEEL DETAILS	X
S7.01	CMU DETAILS	X

ISSUE LOG KEY:
' X ' ISSUED AS PART OF A SET
' - ' NOT A PART OF ISSUED SET
' * ' FOR INFORMATION ONLY

DATE: 04/06/2018

ESTIMATING NOTES FOR DESIGN DEVELOPMENT

THESE ADDED NOTES ARE PROVIDED TO ASSIST WITH ESTIMATING AS THE DESIGN IS NOT FULLY DEVELOPED AT THIS PRINTING.

- MECHANICAL SCREENS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. REF. ARCHITECTURAL DRAWINGS FOR LOCATIONS.
- CANOPIES ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS AND ESTIMATE 20 PSF OF STEEL FOR FRAMING AND CONNECTIONS.
- STAIR FRAMING IS NOT PROVIDED AT THIS TIME. STAIRS WILL BE FRAMED WITH C12x20.7 STRINGERS AND USE 14 GAUGE METAL PANS WITH CONCRETE FILL. REF. ARCHITECTURAL FOR FEATURE STAIR INFORMATION.
- ELEVATOR SIDE RAILS AND HOIST BEAM ARE NOT SHOWN. ESTIMATE SIDE RAILS TO BE HSS6x6x1/2 AND HOIST BEAM TO BE W12x22.
- WON DOOR SUPPORTS ARE NOT SHOWN. ESTIMATE HSS6x6x5/16 JAMBS AND HEADERS. REF. ARCHITECTURAL FOR LOCATIONS.
- EXTERIOR METAL STUD FRAMING HAS NOT BEEN DESIGNED. FOR ESTIMATING PURPOSES ASSUME 6" - 16 GAUGE STUDS AT 16" o.c.. BENT PLATE AND ANGLES WILL BE PROVIDED TO SUPPORT BRICK VENEER AT EACH FLOOR LINE AND OPENINGS. VERTICAL DEFLECTION CLIPS THAT ALSO ALLOW FOR BUILDING DRIFT (DRIFT CLIPS) WILL BE PROVIDED AT EACH FLOOR LINE. OPENINGS UP TO 12'-0" IN LENGTH WILL BE PUNCHED OPENINGS WITH BOXED BEAM HEADER, LONGER OPENINGS WILL BE SUPPORTED FROM THE FLOOR ABOVE AND KICKERS WILL BE REQUIRED ABOVE THE CEILING TO BRACE THE WALL.
- STEEL FRAMING HAS BEEN SHOWN TO THE GREATEST EXTENT POSSIBLE. TO ACCOUNT FOR MISSING MEMBERS, FRAMING AT SLAB OPENINGS, BRACING, CONNECTIONS, ETC. WE RECOMMEND USING AN AVERAGE STEEL WEIGHT OF 12 PSF AT THE FLOORS AND 10 PSF AT THE ROOFS.
- THE CONTRACTOR SHOULD REFER TO THE MECHANICAL DRAWINGS FOR UNIT COUNT, LOCATIONS AND WEIGHTS. THE PERIMETER OF ALL UNITS WILL BE SUPPORTED BY W10x15 BEAMS. ADDITIONAL FRAMING WILL BE REQUIRED TO SUPPORT OPENINGS IN THE ROOF FOR SUPPLY AND RETURN AIR. SEE ROOF PLAN FOR EXTENT OF CONCRETE HOUSEKEEPING PADS UNDER ALL UNITS.
- FOR BRACED FRAME FOOTINGS, ESTIMATE 160 LBS. REBAR PER CUBIC YARD OF CONCRETE.
- FOR CONCRETE TOPPING SLABS, ESTIMATE 0.7 PSF REINFORCEMENT WEIGHT.

LIST OF ABBREVIATIONS

A.B.	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADD'L.	ADDITIONAL
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION INCORPORATED
ALT.	ALTERNATE
ALUM.	ALUMINUM
ARCH.	ARCHITECT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BLDG.	BUILDING
BOT.	BOTTOM
BRBF	BUCKLING RESTRAINED BRACED FRAME
C.G.	CENTER OF GRAVITY
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
C.J.P.	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
db	BAR DIAMETER
DBA	DEFORMED BAR ANCHOR
DET.	DETAIL
DIA., Ø	DIAMETER
DIAG.	DIAGONAL
D.L.	DEAD LOAD
DWG.	DRAWING
ELEC.	ELECTRICAL
EL.	ELEVATION
EQ.	EQUAL
EXIST., (E)	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
FDN.	FOUNDATION
FIN.	FINISH
FLR.	FLOOR
FT.	FOOT
FTG.	FOOTING
GA.	GAUGE
GALV.	GALVANIZED
GL	GLULAM
HORIZ.	HORIZONTAL
HSS	HOLLOW STRUCTURAL STEEL
IBC	INTERNATIONAL BUILDING CODE
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
I.D.	INSIDE DIAMETER
IN.	INCH
INT.	INTERIOR
K	KIPS
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LB.	POUND
L.L.	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC.	LOCATION
LONG.	LONGITUDINAL
LSL	LAMINATED STRAND LUMBER BEAM
LVF	LOW VELOCITY FASTENER
LVL	LAMINATED VENEER LUMBER BEAM
MAX.	MAXIMUM
MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MPH	MILES PER HOUR
MT	MAGNETIC PARTICLE TESTING
(N)	NEW
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
NO.	NUMBER
N.T.S.	NOT TO SCALE
o.c.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPP.	OPPOSITE
OWJ	OPEN WEB JOIST
PAF	POWDER ACTUATED FASTENER
PART.	PARTITION
P/C	PRECAST
PCF	POUNDS PER CUBIC FOOT
PERIM.	PERIMETER
PL	PLATE
PP	PARTIAL PENETRATION
PSF	POUNDS PER SQUARE FOOT
PSL	PARALLEL STRAND LUMBER
PSI	POUNDS PER SQUARE INCH
P/T	POST-TENSIONED
P.T.	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
R, RAD.	RADIUS
RCSC	RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS
REF.	REFERENCE
RET.	RETURN
REINF.	REINFORCING
REQ'D.	REQUIRED
REQ'MTS.	REQUIREMENTS
SCHED.	SCHEDULE
S.C.	SLIP CRITICAL
SCL	STRUCTURAL COMPOSITE LUMBER
SIM.	SIMILAR
SLRS	SEISMIC LOAD RESISTING SYSTEM
S.O.G.	SLAB ON GRADE
SPEC.	SPECIFICATION
SQ.	SQUARE
SS	STAINLESS STEEL
SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
STD.	STANDARD
STRUCT.	STRUCTURAL
SYM.	SYMMETRICAL
THRU	THROUGH
T & G	TONGUE AND GROOVE
TRANS.	TRANSVERSE
TJ	TRUSS JOIST
TS	LIGHT GAUGE TUBE STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U.T.	ULTRASONIC TESTING
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
w/	WITH
WF	WIDE FLANGE
w/o	WITHOUT
W.P.	WORK POINT
WPS	WELDING PROCEDURE SPECIFICATION
WWF	WELDED WIRE FABRIC

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DRAWING INDEX AND LIST OF ABBREVIATIONS

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GENERAL STRUCTURAL NOTES

STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THESE DRAWINGS INTO THEIR SHOP DRAWINGS AND WORK.

THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

CODE REQUIREMENTS:
CONFORM TO THE 2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC), BASED ON THE 2012 INTERNATIONAL BUILDING CODE (IBC).

TEMPORARY CONDITIONS:
THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

RETAINING WALLS WHICH TIE TO UPPER SLABS SHALL NOT BE BACKFILLED UNTIL THE UPPER SLABS REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED AT THE TOP OF THE WALL.

EXISTING CONDITIONS:
ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM CONDITIONS SHOWN ON THE DRAWINGS.

ASSUMED FUTURE CONSTRUCTION:
VERTICAL: NONE
HORIZONTAL: NONE

DESIGN CRITERIA:
DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE OSSC. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWABLES WERE USED FOR DESIGN, WITH LIVE LOADS (L.L.) REDUCED PER OSSC:

DESIGN CRITERIA		
GRAVITY SYSTEM CRITERIA		
ROOF LIVE LOAD	**20 PSF L.L. (ALSO SEE SNOW LOAD CRITERIA BELOW)**	
FLOOR LIVE LOADS:	**UNIFORM LOAD**	**CONCENTRATED LOAD**
CLASSROOMS	40 PSF L.L. + 15 PSF FOR PARTITIONS	1,000 LBS.
CORRIDORS AND STAIRS	100 PSF L.L.(80 PSF ABOVE FIRST FLOOR)	1,000 LBS. (300 LBS. AT STAIRS)
CAFETERIA, GYMNASIUM	100 PSF L.L.	-
LIBRARY (READING ROOM)	60 PSF L.L.	1,000 LBS.
KITCHEN, CULINARY ARTS	150 PSF L.L.	-
STORAGE (LIGHT)	125 PSF L.L.	2,000 LBS.
LIBRARY (STACK ROOMS)	150 PSF L.L.	1,000 LBS.
MEP ROOMS	150 PSF L.L.	-
VERTICAL FLOOR DEFLECTION (CLADDING DESIGN)	0.75" OR L/360 WHICHEVER IS LESS LONG TERM DEAD LOAD PLUS LIVE LOAD; 0.375" OR L/600 WHICHEVER IS LESS AT BRICK VENEER SUPPORTS	
VERTICAL FLOOR DEFLECTION (INTERIOR)	L/360 LIVE LOAD PER OSSC TABLE 1604.3	
NOTES:	1. LIVE LOADS REDUCED PER OSSC. 2. MEMBER DESIGNED FOR MORE CRITICAL OF UNIFORM OR CONCENTRATED LOAD.	
SNOW CRITERIA		
DESIGN ROOF SNOW LOAD	22 PSF MINIMUM IN ACCORDANCE WITH OSSC 22 PSF (+5 PSF RAIN ON SNOW SURCHARGE WHERE RUNNOFF IS CONSTRAINED)	
SNOW DRIFT	PER OSSC AS SHOWN ON PLANS	
GROUND SNOW LOAD	Pg= 4 PSF IN ACCORDANCE WITH 2013 SNOW LOAD ANALYSIS FOR OREGON	
FLAT ROOF SNOW LOAD	Pf = 3 PSF	
SNOW EXPOSURE FACTOR	Ce = 1.0	
SNOW LOAD IMPORTANCE FACTOR	Is = 1.1	
THERMAL FACTOR	Ct = 1.0	
GEOTECHNICAL CRITERIA		
DESIGN BASED ON REPORT BY:	GEODESIGN, INC. DATED NOVRMBER 20, 2017	
RETAINING WALLS - CANTILEVERED	35 PCF (EQUIVALENT FLUID PRESSURE)	
RETAINING WALLS - BRACED AT TOP	55 PCF (EQUIVALENT FLUID PRESSURE)	
RETAINING WALLS - SEISMIC	8.5H^2 PLF APPLIED AT 0.6H; (H=WALL HEIGHT)	
PASSIVE PRESSURE	250 PCF (EQUIVALENT FLUID PRESSURE)	
COEFFICIENT OF FRICTION	0.4	
ALLOWABLE SOIL PRESSURE:		
MAXIMUM BEARING PRESSURE	3,000 PSF	
SHORT TERM LOADING	6,000 PSF	
WIND CRITERIA		
RISK CATEGORY	III	
MAIN WIND FORCE RESISTING SYSTEM	Vult = 145 MPH ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)	
COMPONENTS AND CLADDINGS	Vult = 145 MPH ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)	
EXPOSURE CATEGORY	B	
GUST/INTERNAL PRESSURE	GCpi = +/- 0.18	
SEISMIC CRITERIA		
RISK CATEGORY	III	
SEISMIC DESIGN CATEGORY	D	
SITE CLASS	D	
IMPORTANCE FACTOR	IE = 1.25	
SITE ADJUSTED MCE SPECTRAL ACCELERATION	SMS = 1.598	SM1 = 1.347
DESIGN SPECTRAL ACCELERATION	SDS = 1.065	SD1 = 0.898
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PER ASCE 7-10, SECTION 12.8	
	HIGH SCHOOL GYMNASIUM	
	X DIRECTION (E / W)	Y DIRECTION (N / S)
SEISMIC FORCE RESISTING SYSTEM (SFRS)	SPECIAL REINFORCED MASONRY SHEAR WALLS	SPECIAL REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION FACTOR	R = 5	R = 5
SEISMIC RESPONSE COEFFICIENT	Cs = 0.266	Cs = 0.266
DESIGN BASE SHEAR	XXX KIPS	XXX KIPS
REDUNDANCY FACTOR	rho = 1.3	rho = 1.3
DESIGN INELASTIC STORY DRIFT	Δ = X"	Δ = X"
	MIDDLE SCHOOL WING	
	X DIRECTION (E / W)	Y DIRECTION (N / S)
SEISMIC FORCE RESISTING SYSTEM (SFRS)	SPECIAL REINFORCED MASONRY SHEAR WALLS AND STEEL BUCKLING RESTRAINED BRACED FRAMES	SPECIAL REINFORCED MASONRY SHEAR WALLS AND STEEL BUCKLING RESTRAINED BRACED FRAMES
RESPONSE MODIFICATION FACTOR	R = 5	R = 5
SEISMIC RESPONSE COEFFICIENT	Cs = 0.266	Cs = 0.266
DESIGN BASE SHEAR	XXX KIPS	XXX KIPS
REDUNDANCY FACTOR	rho = 1.3	rho = 1.3
DESIGN INELASTIC STORY DRIFT	Δ = X"	Δ = X"
	COMMON SECTOR	
	X DIRECTION (E / W)	Y DIRECTION (N / S)
SEISMIC FORCE RESISTING SYSTEM (SFRS)	STEEL BUCKLING RESTRAINED BRACED FRAMES	STEEL BUCKLING RESTRAINED BRACED FRAMES
RESPONSE MODIFICATION FACTOR	R = 8	R = 8
SEISMIC RESPONSE COEFFICIENT	Cs = 0.166	Cs = 0.166
DESIGN BASE SHEAR	XXX KIPS	XXX KIPS
REDUNDANCY FACTOR	rho = 1.3	rho = 1.3
DESIGN INELASTIC STORY DRIFT	Δ = X"	Δ = X"

SEISMIC FORCE-RESISTING SYSTEM:
THE SEISMIC FORCE-RESISTING SYSTEM (SFRS) FOR THE COMPLETED STRUCTURE IS AS FOLLOWS:

MIDDLE SCHOOL WING: STEEL ROOF DECK AND CONCRETE OVER METAL DECK FLOOR DIAPHRAGMS TRANSFER LATERAL LOADS TO CMU WALLS AROUND THE MIDDLE SCHOOL GYMNASIUM AND BRB FRAMES IN THE CLASSROOM BLOCK WHICH TRANSFER LOADS THROUGH THE MAT SLAB INTO THE SOIL.

COMMON AND HIGH SCHOOL WING: STEEL ROOF DECK AND CONCRETE OVER METAL DECK FLOOR DIAPHRAGMS TRANSFER LATERAL LOADS BRB FRAMES IN THE CLASSROOM BLOCK WHICH TRANSFER LOADS THROUGH THE MAT SLAB INTO THE SOIL.

HIGH SCHOOL GYMNASIUM WING: STEEL ROOF DECK AND CONCRETE OVER METAL DECK FLOOR DIAPHRAGMS TRANSFER LATERAL LOADS TO CMU WALLS WHICH TRANSFER LOADS THROUGH THE MAT SLAB INTO THE SOIL.

REFERENCE SHEETS S3.01 THRU S3.25 FOR SFRS ELEVATIONS AND DETAILS. REFERENCE PLANS FOR ADDITIONAL SFRS COMPONENTS AND DETAILS.

REFER TO THE GENERAL STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DETAILING, INSTALLATION, TESTING AND INSPECTION REQUIREMENTS FOR MEMBERS THAT ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS).

DESIGN AND DETAILING WAS BASED ON CRITERIA FOR SEISMIC DESIGN CATEGORY D.

STRUCTURAL OBSERVATION:
THE STRUCTURAL ENGINEER OF RECORD (SER) WILL PERFORM STRUCTURAL OBSERVATION BASED ON THE REQUIREMENTS OF THE OSSC AT THE STAGES OF CONSTRUCTION LISTED BELOW. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SER TO PERFORM THESE OBSERVATIONS.

STRUCTURAL OBSERVATIONS			
ITEM	**OBSERVED BY (2)**		**COMMENTS**
	AOR	**SER**	
PRIOR TO FIRST CONCRETE POUR		X	REF. NOTES 1,3,4,5
PRIOR TO FIRST CONCRETE DECK POUR		X	REF. NOTES 1,3,4,5
DURING INITIAL STEEL ERECTION		X	REF. NOTES 1,3,4
AS REQUIRED TO ADDRESS STRUCTURAL ISSUES		X	REF. NOTES 1,3,4

FOOTNOTES:

1. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SER IN ADVANCE.
2. SER - STRUCTURAL ENGINEER OF RECORD. AOR - ARCHITECT OF RECORD.
3. A FIELD REPORT WILL BE SUBMITTED TO THE BUILDING DEPARTMENT FOLLOWING EACH SITE VISIT.
4. STRUCTURAL OBSERVATION IS FOR THE GENERAL CONFORMANCE OF THE STRUCTURAL DRAWING, SPECIAL INSPECTION IS STILL REQUIRED.
5. AFTER REINFORCING STEEL HAS BEEN INSTALLED.

SPECIAL INSPECTION AND TESTING:
SPECIAL INSPECTION WILL BE PROVIDED BY THE OWNER BASED ON THE REQUIREMENTS OF THE OSSC AS SUMMARIZED IN THE SPECIAL INSPECTION AND TESTING PROGRAM ON SHEET S00X. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

SUBMITTALS:
SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING:

SUBMITTALS			
ITEM	**SUBMITTAL (1,4)**	**DEFERRED SUBMITTAL (2,4)**	**COMMENTS**
CONCRETE MIX DESIGNS	X		
CONCRETE REINFORCEMENT	X		
MASONRY REINFORCEMENT	X		
CONCRETE ANCHORAGES	X		
EMBEDDED STEEL ITEMS	X		
STRUCTURAL STEEL	X		
STEEL WELDING PROCEDURES	X		
STEEL JOISTS AND JOIST GIRDERS		X	
STEEL DECKING	X		
INTERIOR LIGHT GAUGE METAL FRAMING	X		
STEEL FASTENERS	X		
EXTERIOR LIGHT GAUGE METAL FRAMING	X		
CURTAIN WALL, WINDOW WALL AND OTHER GLAZING SYSTEMS		X	
SKYLIGHTS, CANOPIES AND AWNINGS		X	
STAIRS, LADDERS, AND RAILINGS		X	
MEP EQUIPMENT ANCHORAGE AND BRACING		X	REF. NOTES

FOOTNOTES:

1. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ITEMS. IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE STRUCTURAL ENGINEER.
2. DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE OSSC AND AS NOTED UNDER "DESIGN CRITERIA".
3. THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, MACHINERY, AND ASSOCIATED PIPING WITH THE STRUCTURE. CONNECTIONS TO STRUCTURE SHALL CONFORM TO ASCE 7-10 CHAPTER 13, BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION.
4. FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.
5. THE USE OF REPRODUCTIONS OR PHOTOCOPIES OF THE CONTRACT DRAWINGS SHALL NOT BE PERMITTED. WHEN CAD OR REVIT FILES ARE PROVIDED TO THE CONTRACTOR OR SUBCONTRACTORS, IT IS THE RESPONSIBILITY OF THE DETAILERS TO REMOVE ALL INFORMATION NOT DIRECTLY RELEVANT TO THE CREATION OF THE PLACING DRAWINGS AS WELL AS ALL REFERENCES TO THE OUTSIDE SOURCE FILES.

CONCRETE:
CONCRETE WORK SHALL CONFORM TO CHAPTER 19 OF THE OSSC. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD CYLINDER TESTS PER ASTM C39. MIX DESIGNS SHALL BE AS FOLLOWS:

CONCRETE MIX DESIGNS				
USE	f'c (PSI)	TEST AGE (DAYS)	MAX. W/CM RATIO (NOTE 1)	MAX. AGGREGATE SIZE
INTERIOR EXPOSED SLABS ON GRADE OR METAL DECK (NOTE 3)	**3,000**	**28**	0.42	**1"**
INTERIOR SLABS ON GRADE	4,000	28	0.50	1"
BASEMENT WALLS, SPREAD FOOTINGS AND MAT FOUNDATIONS	4,500	28	0.45	1"
CONCRETE ON METAL DECK, U.N.O.	4,000	28	0.50	3/4"
EXTERIOR SLABS ON GRADE, CURBS, SIDEWALKS, ETC.	5,000	28	0.40	3/4"

TABLES NOTES:
1. VERIFY WATER-CEMENTITIOUS MATERIAL RATIO WITH FLOOR COVERING MANUFACTURER FOR CONCRETE FLOORS WITH MOISTURE SENSITIVE FLOOR COVERINGS.
2. ESTABLISH WATER-CEMENTITIOUS MATERIAL RATIO PER ACI 318-11 CHAPTER 5.
3. REFERENCE EXPOSED SLAB GENERAL NOTES FOR ADDITIONAL MIX REQUIREMENTS.
4. POST-TENSIONED OR PRESTRESSED CONCRETE SHALL NOT CONTAIN MORE THAN 0.06% CHLORIDE IONS BY WEIGHT OF CEMENT.

PORTLAND CEMENT CONTENT MAY BE REPLACED UP TO 20% WITH FLY ASH CONFORMING TO ASTM C618 (INCLUDING TABLE 2A) TYPE F OR TYPE C OR UP TO 50% WITH SLAG CEMENT CONFORMING TO ASTM C989, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA. FOR MIX DESIGNS WITH f'c = 5,000 PSI OR LESS, SLAG CEMENT MAY BE SUBSTITUTED FOR FLY ASH AT A 1:1 RATIO WITHOUT TEST DATA. WHEN SLAG CEMENT IS SUBSTITUTED IN HIGHER STRENGTH MIXES OR AT DIFFERENT RATIO, THE MIX STRENGTH MUST BE SUBSTANTIATED BY TEST DATA.

A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494 USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING (HRWR) ADMIXTURE CONFORMING TO ASTM C494 TYPE F OR G MAY BE USED IN CONCRETE MIXES PROVIDING THAT THE SLUMP DOES NOT EXCEED 10". AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260 SHALL BE USED IN CONCRETE MIXES FOR ALL CONCRETE EXPOSED TO WEATHER. THE AMOUNT OF ENTRAINED AIR BY VOLUME SHALL BE AS FOLLOWS ± 1.5%:

CONCRETE MIX AIR CONTENT		
MAX. AGGREGATE SIZE	**CONCRETE SUBJECT TO FREEZE/THAW**	**CONCRETE SUBJECT TO CONT. MOISTURE AND/OR DEICING CHEMICALS**
3/8"	6.0%	7.5%
1/2"	5.5%	7.0%
3/4"	5.0%	6.0%
1"	4.5%	6.0%

CONCRETE ELEMENTS SUBJECT TO FREEZE/THAW INCLUDE ALL BASMENT WALLS, SPREAD FOOTINGS, MAT FOUNDATIONS, EXTERIOR, CURBS, SIDEWALKS AND EXTERIOR SLABS.

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS ALONG WITH TEST DATA COMPLIANT WITH ACI 318-11 OSSC SECTION 1905 A MINIMUM OF TWO WEEKS PRIOR TO PLACING CONCRETE. NO WATER MAY BE ADDED TO CONCRETE IN THE FIELD UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER IN CONJUNCTION WITH THE CONCRETE MIX DESIGN.

SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE PLACING CONCRETE. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER.

WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEANED AND ROUGHENED TO A MINIMUM 1/4" AMPLITUDE PER ACI 318 SECTION 11.6.9. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE.

VERIFY ALL BLOCK OUTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS.

EXPOSED SLABS:
REFERENCE ARCHITECTURAL DRAWINGS FOR SLABS ON GRADE AND SLABS ON DECK THAT ARE INTENDED TO BE EXPOSED TO VIEW. IN ADDITION TO THE REQUIREMENTS ABOVE UNDER CONCRETE NOTES, FINE AGGREGATE GRADING SHALL CONFORM TO ASTM C33 AND COMBINED AGGREGATE GRADING SHALL CONFORM TO ACI 302.1R. CONCRETE SHRINKAGE SHALL BE LESS THAN 0.04% AT 28 DAYS WHEN TESTED PER ASTM C157. SHRINKAGE TEST DATA TO BE SUBMITTED FOR APPROVAL WITH THE MIX DESIGN.

THE CONTRACTOR SHALL PROTECT EXPOSED SLABS FROM DAMAGE DUE TO EQUIPMENT AND OTHER UNINTENDED LOADING DURING CONSTRUCTION.

REFERENCE SLAB ON GRADE DETAILS AND THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION ON SUBGRADE REQUIREMENTS. REFERENCE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING CURING, FINISHING AND VAPOR BARRIER.

REINFORCING STEEL:
ALL LONGITUDINAL FLEXURAL REINFORCEMENT IN BEAMS, COLUMNS AND SHEAR WALLS SHALL BE ASTM A706, GRADE 60. ALL OTHER DEFORMED BAR REINFORCEMENT MAY BE ASTM A615 GRADE 60 OR ASTM A706 GRADE 60. ASTM A615 REINFORCEMENT MAY BE SUBSTITUTED FOR ASTM A706 REINFORCEMENT PROVIDED THAT THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED 78,000 PSI AND THE RATIO OF ACTUAL TENSILE STRENGTH TO ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25 AND THE ELONGATION REQUIREMENTS OF ACI 318-14 ARE MET. MILL TESTS CERTIFICATIONS FOR SUBSTITUTED BARS SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR AND EOR PRIOR TO PLACEMENT.

SMOOTH WELDED WIRE FABRIC (WWF) SHALL BE ASTM A1064, UNLESS NOTED OTHERWISE. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. WELDING SHALL COMPLY WITH AWS D1.4. COLUMN SPIRALS SHALL BE PLAIN OR DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.

BARS IN BEAMS AND SLABS SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL OR PLASTIC CHAIRS, AS SPECIFIED BY THE CRSI MANUAL OF STANDARD PRACTICE, MSP-1. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315. SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF ALL BEAMS, WALLS AND COLUMNS SHOWING BAR LOCATIONS. LAP ALL REINFORCING BARS PER THE TYPICAL LAP SPLICE LENGTH SCHEDULES, EXCEPT AS NOTED ON DRAWINGS. USE LAP LENGTH FOR SMALLER BAR WHEN SPLICING DIFFERENT BAR SIZES. BARS SPLICED WITH NONCONTACT LAPS SHALL BE SPACED NO FARTHER THAN 1/5TH THE LAP LENGTH OR 6 INCHES. MECHANICAL SPLICES NOTED ON THE PLANS SHALL BE DAYTON SUPERIOR BAR-LOCK (ICC ESR-2495) OR TAPER-LOCK COUPLERS (IAPMO ES-0319) OR APPROVED WITH A CURRENT EVALUATION APPROVAL REPORT.

TYP. WALL AND SLAB LAP SPLICE LENGTH SCHEDULE (IN.)						
BAR SIZE	WALL VERTICAL AND SLAB BOTTOM BARS (NOTE 7)			WALL HORIZONTAL AND SLAB TOP BARS (NOTE 7)		
	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 5,000 PSI	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 5,000 PSI
#3	18	16	14	24	20	18
#4	30	26	24	38	34	30
#5	36	32	30	48	42	38
#6	44	38	34	58	50	44
#7	70	62	54	92	78	70
#8	86	74	68	112	98	88
#9	104	92	82	136	118	106
#10	126	108	98	164	142	126

TYP. BEAM AND COLUMN LAP SPLICE LENGTH SCHEDULE (IN.)												
BAR SIZE	f'c = 3,000 PSI		f'c = 4,000 PSI		f'c = 5,000 PSI		f'c = 6,000 PSI		f'c = 7,000 PSI		f'c ≥ 8,000 PSI	
	BEAM TOP BARS	OTHER BARS	BEAM TOP BARS	OTHER BARS	BEAM TOP BARS	OTHER BARS	BEAM TOP BARS	OTHER BARS	BEAM TOP BARS	OTHER BARS	BEAM TOP BARS	OTHER BARS
#4	26	18	22	16	20	14	18	14	18	12	16	12
#5	34	22	30	20	26	18	24	16	22	16	20	14
#6	40	28	34	24	32	22	28	20	26	18	24	16
#7	58	38	50	34	46	30	42	28	38	26	36	24
#8	66	44	58	38	52	34	48	32	44	30	42	28
#9	76	56	66	48	60	42	54	40	50	36	48	34
#10	88	68	76	58	68	54	62	48	58	44	54	42
#11	104	80	92	70	82	64	74	58	68	54	64	50

TYP. FOUNDATION AND MAT LAP SPLICE LENGTH SCHEDULE (IN.)						
BAR SIZE	BOTTOM BARS (NOTE 7)			TOP BARS (NOTE 7)		
	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 5,000 PSI	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 5,000 PSI
#3	18	14	14	22	20	18
#4	22	20	18	28	26	22
#5	28	24	22	36	32	28
#6	34	28	26	42	38	34
#7	48	42	38	62	54	48
#8	54	48	42	70	62	54
#9	62	54	48	80	70	62
#10	70	60	54	90	78	70
#11	78	68	60	104	90	82

TABLE NOTES:
1. MINIMUM LAP SPLICES NOTED ARE FOR NON-LATERAL LOAD RESISTING ELEMENTS. FOR REBAR LAPS SPLICES AT LATERAL LOAD RESISTING ELEMENTS, REFERENCE PLANS AND ELEVATIONS.
2. ASTM A615 OR ASTM A706, GRADE 60 DEFORMED REINFORCING BARS
3. MINIMUM CLEAR COVER AND BAR SPACING of 4db TO BE PROVIDED.
4. NORMAL WEIGHT CONCRETE, FOR LIGHT-WEIGHT CONCRETE MULTIPLY TABLE VALUES BY 1.3.
5. UNCOATED BARS, FOR EPOXY-COATED BARS MULTIPLY TABLE VALUES BY 1.5.
6. COMBINATIONS OF EFFECTS DUE TO CONCRETE STRENGTH, CONCRETE WEIGHT, AND EPOXY COATING ARE CUMULATIVE.
7. SLAB, FOUNDATION AND MAT TOP BARS ARE BARS CAST ABOVE MORE THAN 12" OF FRESH CONCRETE. ALL OTHER SLAB BARS MAY BE CONSIDERED BOTTOM BARS.

REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS:

REINFORCING STEEL CONCRETE COVER	
USE	**CLEAR COVER**
BEAMS, JOISTS AND COLUMNS	1-1/2" (TO STIRRUPS OR TIES)
SLABS	3/4"
PARKING SLABS AND EXPOSED SLABS	1-1/2" (TOP), 1" (BOTTOM)
WALLS: INTERIOR FACES	3/4"
EXPOSED TO EARTH OR WEATHER	1-1/2" (#5 AND SMALLER) 2" (#6 AND LARGER)
CONCRETE CAST AGAINST AND EXPOSED TO EARTH	3"

CONCRETE REINFORCING DETAILS:
CONTINUE HORIZONTAL WALL BARS THROUGH PILASTERS, COLUMNS AND INTERSECTING WALLS. AT SLAB AND WALL OPENINGS PROVIDE A MINIMUM OF TWO #5 BARS OVER, UNDER AND AT THE SIDES OF THE OPENINGS. EXTEND THESE BARS LAP DISTANCE OR A MINIMUM OF 2'-0" PAST THE OPENING. PROVIDE ONE #5 FOR SINGLE-LAYER REINFORCING AND TWO #5 FOR DOUBLE-LAYER REINFORCING, 4'-0" LONG, DIAGONALLY AT EACH CORNER OF ALL OPENINGS. REFER TO TYPICAL DETAILS FOR DISPOSITION OF CORNER BARS AND BARS IN SMALL WALL SECTIONS. SLAB BARS SHALL BE HOOKED INTO WALLS, OR HOOKED DOWELS SHALL BE PROVIDED TO MATCH SLAB REINFORCING, PROVIDE TWO #4, 4'-0" LONG DIAGONALLY AT EACH RE-ENTRANT CORNER IN SLABS. PROVIDE HOOKED DOWELS FROM FOOTINGS TO MATCH VERTICAL WALL REINFORCING, UNLESS NOTED OTHERWISE. SHOP DRAWINGS SHALL INCLUDE ALL SPECIAL REINFORCEMENT LISTED ABOVE.

CONCRETE ACCESSORIES:
HEADED SHEAR STUDS SHALL BE NELSON HEADED ANCHORS WITH FLUXED ENDS (ICC ESR-2856) OR APPROVED. DEFORMED BAR ANCHORS (DBA) SHALL BE NELSON, TYPE D8L A706, OR APPROVED. STUDS AND DBA SHALL BE AUTOMATICALLY END-WELDED WITH THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THEIR RECOMMENDATIONS.

POST-INSTALLED ANCHORS SHALL BE OF THE TYPE AND PRODUCT SPECIFIED ON THE DRAWINGS OR AS FOLLOWS:

POST INSTALLED CONCRETE ANCHORS	
TYPE	**APPROVED ANCHORS**
EXPANSION	**SIMPSON STRONG-BOLT 2 (ICC ESR-3037)**
CONCRETE SCREW	**SIMPSON TITEN HD (ICC ESR-2713)**
EPOXY ADHESIVE	**HILTI HIT-RE 500 V3 (ICC ESR-3814)**

ALL ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND PRODUCT EVALUATION REPORTS. EMBEDMENTS SPECIFIED ON DRAWINGS ARE "EFFECTIVE" EMBEDMENTS. REFERENCE MANUFACTURER LITERATURE FOR CORRESPONDING ACTUAL EMBEDMENT DEPTHS.

REQUESTS FOR ANCHOR SUBSTITUTIONS SHALL BE SUBMITTED TO THE EOR IN WRITING ALONG WITH EVIDENCE OF EQUAL OR GREATER CAPACITY TO THE SPECIFIED CONNECTION. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING INSTALLATION.

INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED SHALL BE PERFORMED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER AS CERTIFIED THROUGH ACI/CRSI AND IN ACCORDANCE WITH ACI 318-11 SECTION D.9.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE EOR PRIOR TO INSTALLATION.

GENERAL STRUCTURAL NOTES CONT.

TYP. LAP SPLICE LENGTH SCHEDULE (IN.)				
f'm=2,000 PSI	CASE 1	CASE 2		
BAR SIZE	ALL BLOCK	8" BLOCK	10" BLOCK	12" BLOCK
#3	16	12	12	12
#4	29	12	12	12
#5	45	19	15	12
#6	54	37	29	23
#7	63	51	40	32
#8	72	72	61	49
#9	81	81	78	63

TYP. LAP SPLICE LENGTH SCHEDULE (IN.)				
f'm=2,500 PSI	CASE 1	CASE 2		
BAR SIZE	ALL BLOCK	8" BLOCK	10" BLOCK	12" BLOCK
#3	15	12	12	12
#4	26	12	12	12
#5	41	17	14	12
#6	54	33	26	21
#7	63	46	35	29
#8	72	71	54	44
#9	81	81	70	56

TYP. LAP SPLICE LENGTH SCHEDULE (IN.)				
f'm=3,000 PSI	CASE 1	CASE 2		
BAR SIZE	ALL BLOCK	8" BLOCK	10" BLOCK	12" BLOCK
#3	13	12	12	12
#4	24	12	12	12
#5	37	16	12	12
#6	52	30	23	19
#7	63	42	32	26
#8	72	64	50	40
#9	81	81	64	51

NOTES:

CASE 1: BARS LOCATED NEAR THE FACE OF BLOCK WITH ONLY MINIMUM COVER OR CELLS WITH MORE THAN (1) BAR.

CASE 2: SINGLE BARS LOCATED AT THE CENTER OF A CELL.

1. FOR EPOXY COATED BARS, MULTIPLY LAP LENGTHS BY 1.5.
2. MAXIMUM OF (2) BARS IN (1) CELL ((4) AT LAP SPLICE.)
3. AT CONTRACTOR'S OPTION: PROVIDE MECHANICAL SPLICES FOR #8 AND #9 BARS.
4. STAGGER HORIZONTAL BOND BEAM LAP SPLICES 24" MIN.

REINFORCING STEEL COVER	
USE	MINIMUM COVER (TO OUTSIDE FACE OF MASONRY)
MASONRY FACE NOT EXPOSED TO EARTH OR WEATHER	1 1/2"
MASONRY FACE EXPOSED TO EARTH OR WEATHER	1 1/2" (#5 AND SMALLER)
	2" (#6 AND LARGER)

MASONRY ACCESSORIES:

ALL ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. REINFORCING IN NEW OR EXISTING MASONRY SHALL NOT BE CUT DURING INSTALLATION. ALL ANCHORS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING OR USE OF STAINLESS STEEL.

MASONRY ANCHORS	
TYPE	APPROVED ANCHORS
EXPANSION	DEWALT POWER-STUD+ (IC ESR-2966)
SCREW	SIMPSON TITEN HD (ICC ESR-1056)
EPOXY ADHESIVE	HILTI HIT HY-70 (ICC ESR-2682)

NOTE:

1. MINIMUM GROUT COVER BETWEEN REINFORCEMENT AND INSIDE FACE OF CELL SHALL BE 1/4" FOR FINE GROUT AND 1/2" FOR COURSE GROUT.

STRUCTURAL STEEL:

STRUCTURAL STEEL SHALL BE:

STRUCTURAL STEEL	
MATERIAL GRADE	SHAPE
ASTM A992, GRADE 50	WIDE FLANGE SHAPES
ASTM A572, GRADE 50	PLATES WHERE NOTED
ASTM A36	CHANNELS, PLATES AND ANGLES, EXCEPT AS NOTED
ASTM A500, GRADE B (FY=46KSI)	HOLLOW STRUCTURAL SECTIONS (TUBES)
ASTM A53, GRADE B (FY=35 KSI)	PIPES

DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE "AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" WITH "COMMENTARY" AND THE "CODE OF STANDARD PRACTICE", WITH EXCEPTIONS NOTED IN SPECIFICATIONS. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR MEMBERS PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS).

BOLTS SHALL CONFORM TO THE ASTM AND RCSC SPECIFICATIONS FOR JOINTS USING A325 OR A490 HIGH STRENGTH BOLTS. BOLTS SHALL BE SNUG-TIGHT UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS USED AS PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS) NOTED ON THE DRAWINGS AND DETAILS SHALL BE FULLY TENSIONED AND ALL FAYING SURFACES SHALL BE PREPARED AS REQUIRED FOR CLASS A OR BETTER SLIP-CRITICAL JOINTS.

WELDING SHALL CONFORM TO THE AWS CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH A WELDED PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS D1.1 AND APPROVED BY THE STRUCTURAL ENGINEER. THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER. FOR MEMBERS INCLUDED IN THE SEISMIC FORCE RESISTING SYSTEM (SFRS), REQUIREMENTS OF AWS D1.8 (SEISMIC SUPPLEMENT) SHALL APPLY

ALL WELDS USED IN MEMBERS AND CONNECTIONS THAT ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS) SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LBS AT 0 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION. ALL COMPLETE JOINT PENETRATION WELDS DESIGNATED AS DEMAND CRITICAL SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT MINUS 20 DEGREES F, AND 40 FT-LBS AT 70 DEGREES F. FOR COMPLETE JOINT PENETRATION WELDS ASSOCIATED WITH MEMBER SPLICES AND CONNECTIONS NOT PART OF THE SFRS, WELDS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT 40 DEGREES F.

FOR MEMBERS AND CONNECTIONS THAT ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM, DISCONTINUITIES CREATED BY ERRORS OR BY FABRICATION OR ERECTION OPERATIONS, SUCH AS TACK WELDS, ERECTION AIDS, AIR-ARC GOUGING, AND FLAME CUTTING, SHALL BE REPAIRED AS REQUIRED BY THE STRUCTURAL ENGINEER.

WELDS SHALL BE MADE USING E70XX ELECTRODES AND SHALL BE 3/16" MINIMUM, UNLESS OTHERWISE NOTED. WELDING SHALL BE BY AWS CERTIFIED WELDERS.

PROVIDE WEEP HOLES AT EXTERIOR CLOSED SECTIONS WHERE MOISTURE MAY ACCUMULATE.

STEEL DECK:

STEEL FLOOR DECK SHALL BE A COMPOSITE TYPE WITH RIBS AT 12" o.c. OF THE SIZE AND GAUGE INDICATED ON THE PLANS. STEEL FLOOR DECK SHALL BE VENTED AS REQUIRED BY THE DECK MANUFACTURER BASED ON THE FLOOR COVERING OR COATING BEING USED. STEEL ROOF DECK SHALL BE 1-1/2" TYPE B OR 3" TYPE N OF THE GAUGE SHOWN ON THE PLANS. STEEL DECK SHALL CONFORM TO ASTM A653 DESIGNATION SS, GRADE 50 (Fy = 50 KSI). THE GALVANIZED COATING SHALL CONFORM TO ASTM A653, G 60 (G90 WHERE LEFT PERMANENTLY EXPOSED TO WEATHER).

MINIMUM DECK GAUGES ARE SHOWN ON PLANS AND ARE BASED ON 3-SPAN, UN-SHORED CONDITIONS. FOR OTHER SPAN CONDITIONS, DECK MANUFACTURER SHALL EVALUATE AND INDICATE SHORING AS REQUIRED. MINIMUM PROPERTIES SHALL BE AS FOLLOWS:

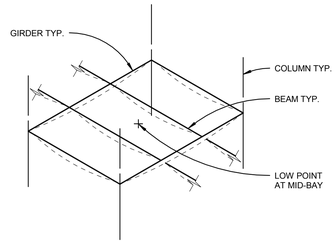
FLOOR DECK PROPERTIES			
DECK TYPE & GAUGE	I (IN^4/FT)	+S (IN^3/FT)	-S (IN^3/FT)
W2 - 20 GAUGE	0.422	0.323	0.333
W2 - 18 GAUGE	0.564	0.471	0.481
W3 - 20 GAUGE	0.907	0.510	0.528
W3 - 18 GAUGE	1.213	0.752	0.768

ROOF DECK PROPERTIES			
DECK TYPE & GAUGE	I (IN^4/FT)	+S (IN^3/FT)	-S (IN^3/FT)
B - 20 GAUGE	0.219	0.230	0.237
B - 18 GAUGE	0.302	0.314	0.331
N - 20 GAUGE	0.908	0.443	0.531
N - 18 GAUGE	1.267	0.652	0.735

WELDED OR MECHANICAL DECK CONNECTIONS SHALL BE PROVIDED AT ALL SUPPORTS AND SIDELAPS AS INDICATED ON THE PLANS. DECK DESIGN IS BASED ON VERCO IN ACCORDANCE WITH IAPMO ES EVALUATION REPORT ER-0217. EQUAL PRODUCT(S) MAY BE SUBMITTED FOR REVIEW AND APPROVAL BY EOR.

DO NOT HANG OR SUSPEND STRUCTURAL ITEMS DIRECTLY FROM ROOF DECK. NON-STRUCTURAL ITEMS SUSPENDED FROM THE DECK SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

STEEL FRAMING DEFLECTION DURING CONCRETE OVER METAL DECK PLACEMENT:



METAL DECK, BEAMS, AND GIRDERS WILL DEFLECT DURING PLACEMENT OF CONCRETE. CONTRACTOR SHALL ACCOUNT FOR THIS DISPLACEMENT BY PROVIDING ADDITIONAL CONCRETE AT CENTER OF SPANS. THE INTENT IS TO CONSTRUCT LEVEL FLOORS WITHIN EACH BAY, OR STRAIGHT SLOPES ON ROOF BAYS, AND TO PROVIDE THE MINIMUM THICKNESS OF CONCRETE OVER METAL DECK THAT IS CALLED FOR PLANS.

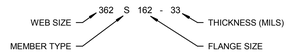
STEEL JOISTS:

STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED TO RESIST THE LOADS INDICATED ON THE DRAWINGS AND SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE (SJI) STANDARDS. THE STEEL JOIST MANUFACTURER SHALL BE APPROVED BY SJI. THE CONTRACTOR SHALL COORDINATE CONNECTIONS TO JOISTS FOR SEISMIC RESTRAINTS OF MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, MACHINERY, AND ASSOCIATED PIPING. JOIST MANUFACTURER SHALL VERIFY THAT CONNECTION METHODS AND SEISMIC LOADS CONFORM TO THE JOIST DESIGN. PROVIDE BRIDGING IN CONFORMANCE WITH SJI STANDARDS. JOISTS AND BRIDGING SHALL BE CAPABLE OF RESISTING A MINIMUM WIND UPLIFT OF 10 PSF (0.6W ASD), UNLESS OTHERWISE NOTED ON THE DRAWINGS. IN ADDITION TO THE LOADS NOTED ON THE DRAWINGS, ALL JOISTS SHALL BE CAPABLE OF SUPPORTING A 500 POUND CONCENTRATED LOAD PLACED AT ANY POINT ALONG THE TOP AND BOTTOM CHORD.

LIGHT GAUGE METAL FRAMING:

METAL STUDS SHALL BE C-STUDS WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI FOR 33 AND 43 MIL AND 50,000 PSI FOR 54, 68 AND 97 MIL THICKNESSES. GAUGE PLATE AND STRAPS SHALL HAVE A MINIMUM YIELD STRENGTH OF 30,000 PSI FOR 33 AND 43 MIL AND 50,000 PSI FOR 54, 68 AND 97 MIL THICKNESSES. LIGHT GAUGE FRAMING SHALL BE OF THE SIZE, GAUGE, AND SPACING SHOWN ON THE DRAWINGS.

THE AMERICAN IRON AND STEEL INSTITUTE AND STEEL STUD MANUFACTURES ASSOCIATION (SSMA) STANDARDS ARE USED IN THIS PACKAGE. PRODUCTS USED SHALL MEET OR EXCEED AISI STANDARDS AND ARE DESIGNATED BY:



PROVIDE BRIDGING ADEQUATE TO DEVELOP THE FULL MOMENT CAPACITY OF STUDS IN CONFORMANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION'S (SSMA) RECOMMENDATIONS.

ALL FIELD CUTTING OF STUDS MUST BE BY SAWING, SHEARING, OR PLASMA CUTTING. OTHER CUTTING METHODS OF COLD-FORMED MEMBERS ARE UNACCEPTABLE.

NO NOTCHING OR COPING OF STUDS IS ALLOWED, UNLESS NOTED OTHERWISE.

ENDS OF AXIAL LOAD BEARING WALL STUDS SHALL HAVE SQUARE END CUTS AND SHALL BE SEATED TIGHT AGAINST THE TRACKS WITH A MAXIMUM GAP TOLERANCE OF 1/8" BETWEEN THE STUD AND TRACK. FOR STUDS WITH A MATERIAL THICKNESS OF 68 MIL AND GREATER, THE MAXIMUM GAP TOLERANCE IS REDUCED TO 1/16".

SPLICING OF WALL STUDS OR HEADERS IS NOT ALLOWED, UNLESS NOTED OTHERWISE.

CONTRACTOR TO ENSURE PUNCH OUT ALIGNMENT WHEN ASSEMBLING LATERAL BRACING AND FIELD CUTTING STUDS TO LENGTH.

ALL HEADERS/BUILT-UP BEAMS ARE TO BE CONSTRUCTED WITH UNPUNCHED MATERIAL ONLY.

LIGHT GAUGE FRAMING CONNECTIONS SHALL BE AS FOLLOWS:

LIGHT GAUGE METAL FRAMING CONNECTIONS	
FASTENER	PRODUCT
SCREWS	ELCO DRIL-FLEX OR HILTI KWIK-FLEX (ESR-3332)
PAF'S	HILTI X-U (ESR-2269)

FOR SCREWS, PROVIDE 3/4" MINIMUM CLEARANCE FROM ALL EDGES AND 3/4" MINIMUM CENTER TO CENTER SPACING.

FASTENERS OF COMPARABLE SPECIFICATIONS AND LOAD CAPACITIES MAY BE SUBMITTED FOR APPROVAL.

WELDING SHALL CONFORM WITH AWS D1.3.

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GENERAL STRUCTURAL NOTES CONT.

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SPECIAL INSPECTION AND TESTING

STATEMENT OF SPECIAL INSPECTION NOTES:

1. SPECIAL INSPECTIONS SHALL CONFORM TO SECTION 1705 OF THE 2014 OSSC, CONTRACT DOCUMENTS AND APPROVED SUBMITTALS. REFER TO TABLES 1 THROUGH 5 FOR SPECIAL INSPECTION AND TABLES 6, 7 AND 7A FOR TESTING REQUIREMENTS.

2. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY MEETING THE REQUIREMENTS OF ASTM E329 (MATERIALS). THE INSPECTION AND TESTING AGENCY SHALL FURNISH TO THE ARCHITECT A COPY OF THEIR SCOPE OF ACCREDITATION. SPECIAL INSPECTORS SHALL BE APPROVED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1.

3. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS.

4. THE SPECIAL INSPECTOR AND GEOTECHNICAL ENGINEER SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER, ARCHITECT, CONTRACTOR, AND OWNER. THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.

5 FOR STEEL INSPECTIONS PER AISC 360 AND 341 (TABLES 2A AND 4A):
QUALITY ASSURANCE (QA) IS REQUIRED FOR EACH ITEM IN TABLES UNLESS SPECIFICALLY NOTED OTHERWISE.
QUALITY CONTORL (QC) TO BE PROVIDED BY THE FABRICATOR, ERECTOR OR OTHER RESPONSIBLE CONTRACTOR AS APPLICABLE. CONTRACTOR AND SPECIAL INSPECTOR TO DOCUMENT QUALITY CONTROL AS REQUIRED IN AISC 360 SECTION N3 AND AISC 341 SECTION J2.

6 INSPECTION TYPES
CONTINUOUS : THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
PERIODIC : THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
OBSERVE : OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.
PERFORM : INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.

7 PERFORM INSPECTION PRIOR TO FINAL ACCEPTANCE OF THE ITEM FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF SKILLS AND TOOLS TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THAT THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THAT THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED

8 SPECIAL INSPECTION OF MECHANICAL POST INSTALLED ANCHORS SHALL BE IN STRICT CONFORMANCE WITH THE ICC REPORT AND MANUFACTURERS INSTALLATION REQUIREMENTS. ANCHOR INSTALLERS SHALL BE QUALIFIED AS REQUIRED BY JURISDICTION REQUIREMENTS.

- INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS.
- SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE ANCHORS WERE INSPECTED PER APPROVED ANCHOR EVAULATION REPORT.

9 **TABLE 7 ABBREVIATIONS:**
NDT - NON-DESTRUCTIVE TESTING
CJP - COMPLETE JOINT PENETRATION
MT - MAGNETIC PARTICLE TESTING
RBS - REDUCED BEAM SECTION

10 DOCUMENT (D): INDICATES CONTRACTOR AND SPECIAL INSPECTOR TO PROVIDE DOCUMENTATION IN ACCORDANCE WITH AISC 341.

CONTRACTOR RESPONSIBILITY:

THE CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND-OR SEISMIC-FORCE-RESISTING SYSTEM, OR A WIND-OR SEISMIC-RESISTING COMPONENT LISTED IN TABLES 4, 4A, 5, 7, 7A, N2, AND N4 SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

1. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.

2. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS.

3. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

TABLE 1 - REQUIRED GEOTECHNICAL SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION				REMARKS
	OSSC CODE REFERENCE	CODE OR STANDARDS REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
SOILS					
VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	1705.6	GEOTECHNICAL REPORT		X	BY THE GEOTECHNICAL ENGINEER
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL				X	
PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS				X	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL			X		
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY				X	
MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS					
INSTALLATION	1707.1	GEOTECHNICAL AND ICC EVALUATION REPORTS	X		BY THE GEOTECHNICAL ENGINEER SPECIAL INSPECTIONS APPLY TO VERIFYING MODULAR UNIT PRODUCT NAME, TYPE, AND DIMENSIONS, FOUNDATION PREPARATION, MODULAR UNIT PLACEMENT, INCLUDING ALIGNMENT AND INCLINATION, GEOSYNTHETIC REINFORCEMENT PRODUCT NAME, TYPE, AND PLACEMENT, BACKFILL PLACEMENT AND COMPACTION, AND DRAINAGE PROVISIONS
GABION WALLS					
INSTALLATION	1707.1	GEOTECHNICAL REPORT	X		BY THE GEOTECHNICAL ENGINEER SPECIAL INSPECTIONS APPLY TO VERIFYING GABION PRODUCT NAME, TYPE AND DIMENSIONS, FOUNDATION PREPARATION, GABION PLACEMENT INCLUDING ALIGNMENT AND INCLINATION, STONE FILL TYPE AND PLACEMENT, BACKFILL PLACEMENT AND COMPACTION AND DRAINAGE PROVISIONS
GEOSYNTHETIC WALLS					
INSTALLATION	1707.1	GEOTECHNICAL REPORT	X		BY THE GEOTECHNICAL ENGINEER SPECIAL INSPECTIONS APPLY TO VERIFYING GEOSYNTHETIC MATERIAL, PRODUCT NAME, TYPE AND DIMENSIONS, FOUNDATION PREPARATION, GEOSYNTHETIC PLACEMENT INCLUDING ALIGNMENT AND INCLINATION, BACKFILL PLACEMENT AND COMPACTION AND DRAINAGE PROVISIONS

TABLE 2 - REQUIRED STRUCTURAL SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION				REMARKS
	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
FABRICATORS					
FABRICATORS	1704.2.5			X	SPECIAL INSPECTION IS REQUIRED FOR STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES FABRICATED ON THE PREMISES OF A FABRICATOR'S SHOP PER TABLE 2 AND AS REQUIRED ELSEWHERE IN THE SPECIAL INSPECTION PROGRAM. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES AND SHALL REVIEW FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENT. REFERENCE SECTION 1704.2.5.2 FOR APPROVED FABRICATOR EXCEPTION.
DEFERRED SUBMITTALS					
DEFERRED SUBMITTALS			X	X	SPECIAL INSPECTION REQUIREMENTS FOR DEFERRED SUBMITTAL ITEMS TO BE SPECIFIED BY THE SYSTEMS ENGINEER AND INCLUDED WITH DEFERRED SUBMITTAL DOCUMENTS.
CONCRETE					
GENERAL	1705.3 1901.4	ACI 318 1.3			SPECIAL INSPECTIONS OF CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1705.3 OF THE OSSC AND SECTION 1.3 OF ACI 318.
REINFORCING STEEL	1910.4 1901.3.2	ACI 318 3.5 ACI 318 7.1 TO 7.7		X	REINFORCING TO COMPLY WITH ALL CODE PROTECTION, SPACING AND TOLERANCE LIMITS.
WELDING REINFORCING STEEL	1705.2.2 1903.1	AWS D1.4 ACI 318: 3.5.2			
1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706				X	
2. REINFORCING STEEL OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCMENT			X		
3. SHEAR REINFORCEMENT			X		
4. OTHER REINFORCING STEEL				X	
PLACEMENT OF CAST-IN-PLACE BOLTS	1908.5 1909.1		X		ALL BOLTS VISUALLY INSPECTED
VERIFYING USE OF REQUIRED MIX DESIGN(S)	1904.2 1910.2 1910.3	ACI 318, CH. 4 ACI 318 5.2-5.4		X	
CONCRETE PLACEMENT, NON-SHRINK GROUT		ACI 318 5.9-5.10	X		
CONCRETE PLACEMENT AT COMPOSITE SLABS		ASCE 9, CH. 3	X		
CONCRETE CURING	1910.9	ACI 318 5.11-5.13		X	
ERECTION OF PRECAST MEMBERS		ACI 318 CH. 16		X	ALL CONNECTIONS VISUALLY INSPECTED. REFER TO ANCHOR BOLT AND WELDING REQUIREMENTS
VERIFICATION OF FORMWORK		ACI 318 6.1.1		X	SPECIAL INSPECTIONS APPLY TO SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED
EMBEDDED ITEMS IN CONCRETE				X	ALL NON-STRUCTRAL EMBEDDED ITEMS, SUCH AS CONDUITS, PIPES AND SLEEVES, SHALL BE REVIEWED FOR CONFORMANCE WITH STRUCTURAL DOCUMENTS FOR SIZE, SPACING, LOCATION, EDGE DISTANCE AND TRIM REINFORING.
REINFORCING STEEL MECHANICAL COUPLERS, TERMINATORS AND FORMSAVERS		ICC EVALUATION REPORTS		X	
MASONRY LEVEL B QUALITY ASSURANCE					
1. VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AND APPROVED SUBMITTALS		TMS 602 ART. 1.5		X	
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. PROPORTIONS OF SITE-PREPARED MORTAR		TMS 602 ART. 2.1, 2.6 A		X	
B. CONSTRUCTION OF MORTAR JOINTS		TMS 602 ART. 3.3 B		X	
C. GRADE AND SIZE OF PRESTRESSING TENDONS ANCHORAGES		TMS 602 ART. 2.4 B, 2.4 H		X	
D. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		TMS 602 ART. 3.4, 3.6 A		X	
E. PRESTRESSING TECHNIQUE		TMS 602 ART. 3.6 B		X	
F. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY		TMS 602 ART. 2.1 C	X (B)	X (C)	(B) REQUIRED FOR THE FIRST 5,000 SQ. FT. (465 SQUARE METERS) OF AAC MASONRY (C) REQUIRED AFTER THE FIRST 5,000 SQ. FT. (465 SQUARE METERS) OF AAC MASONRY
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. GROUT SPACE		TMS 602 ART. 3.2 D, 3.2 F		X	
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		TMS 402 SEC. 1.16; TMS 602 ART. 2.4, 3.4		X	
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		TMS 402 SEC. 1.16; TMS 602 ART. 3.2 E, 3.4, 3.6 A		X	
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		TMS ART. 2.6 B, 2.4 G.1.b		X	
E. CONSTRUCTION OF MORTAR JOINTS		TMS 602 ART. 3.3 B		X	
4. VERIFY DURING CONSTRUCTION					
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		TMS 602 ART. 3.3F		X	
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES , OR OTHER CONSTRUCTION		TMS 402 SEC. 1.16.4.3, 1.17.1		X	
C. WELDING OF REINFORCEMENT		TMS 402 SEC. 2.1.7.7.2, 3.3.3.4(c), 8.3.3.4(b)	X		
D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40F (4.4C)) OR HOT WEATHER (TEMPERATURE ABOVE 90F (32.2C))		TMS 602 ART. 1.8C, 1.8D		X	
E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE		TMS 602 ART. 3.6B	X		
F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE		TMS 602 ART. 3.5, 3.6C	X		
G. PLACEMENT OF ACC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS		TMS 602 ART. 3.3 B.8	X(B)	X(C)	(B) REQUIRED FOR THE FIRST 5,000 SQ. FT. (465 SQUARE METERS) OF AAC MASONY (C) REQUIRED AFTER THE FIRST 5,000 SQ. FT. (465 SQUARE METERS) OF AAC MASONRY
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		TMS 602 ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4		X	

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SPECIAL INSPECTION AND TESTING

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SPECIAL INSPECTION AND TESTING CONT.

TABLE 2 - REQUIRED STRUCTURAL SPECIAL INSPECTIONS CONT.

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION FREQUENCY (NOTE 6) CONTINUOUS	INSPECTION FREQUENCY (NOTE 6) PERIODIC	REMARKS
STEEL					
REFERENCE TABLE 2A FOR REQUIRED SPECIAL INSPECTIONS FOR STEEL					
STAINLESS STEEL					
FABRICATION OF STAINLESS STEEL ELEMENTS	1705.1.1			X	REFER TO INSPECTION OF FABRICATOR REQUIREMENTS
MATERIAL VERIFICATION OF STAINLESS STEEL	1705.1.1			X	CERTIFIED MILL TEST REPORTS
MATERIAL VERIFICATION OF BOLTS	1705.1.1			X	MANUFACTURER'S CERTIFIED TEST REPORTS
MATERIAL VERIFICATION OF WELD FILLER METALS	1705.1.1	AWS D1.6 SECTION 6		X	MANUFACTURER'S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WPS'S				X	RETAIN A RECORD OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS				X	RETAIN A RECORD OF QUALIFICATION CARDS
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS			X		ALL WELDS VISUALLY INSPECTED PER AWS D1.6 6.28.1
MULTIPASS FILLET WELDS			X		
SINGLE PASS FILLET WELDS				X	
COLD-FORMED STEEL FRAMING					
MATERIAL VERIFICATION OF WELD FILLER METALS		AWS D1.3 SECTION 7		X	MANUFACTURER'S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WPS'S				X	RETAIN A RECORD OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS	1705.2.2.1			X	RETAIN A RECORD OF QUALIFICATION CARDS
COLD FORMED ROOF AND FLOOR DECKS	1705.2.2.1.1	AWS D1.3		X	WELDING INSPECTION AND INSPECTOR QUALIFICATION
WELDED FRAMING CONNECTIONS	1705.2.2.1	AWS D1.3 SECTION 7		X	ALL WELDS VISUALLY INSPECTED PER AWS D1.3 7.1
POST INSTALLED CONCRETE ANCHORS					
POST INSTALLED ANCHORS INSTALLATION IN HARDENED CONCRETE AND COMPLETED MASONRY	1908.5 1909.1	ACI 318: 1.3, 3.8.6		X (NOTE 8)	INSPECTION REQUIREMENTS PER ICC EVALUATION REPORT

TABLE 2A - REQUIRED STRUCTURAL STEEL SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION (NOTES 5 AND 6) CONTINUOUS	INSPECTION (NOTES 5 AND 6) PERIODIC	INSPECTION (NOTES 5 AND 6) OBSERVE	INSPECTION (NOTES 5 AND 6) PERFORM	REMARKS
STEEL							
CONTRACTOR QUALITY CONTROL REQUIREMENTS		AISC 360 CHAPTER N			X	X	CONTRACTOR TO PROVIDE QUALITY CONTROL FOR ALL ITEMS INDICATED TO BE OBSERVE AND/OR PERFORM IN TABLE BELOW
STEEL FABRICATION							
FABRICATION OF STRUCTURAL ELEMENTS	1704.2.5.2	AISC 360 N2		X			REFER TO INSPECTION OF FABRICATOR REQUIREMENTS
MATERIAL VERIFICATION OF STRUCTURAL STEEL	1705.2.1 2203.1 TABLE 1705.2	ASTM A6 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A3.1 AISC 360 N3.2		X			CERTIFIED MILL TEST REPORTS
FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	TABLE 1705.2	APPLICABLE ASTM STANDARDS		X			MANUFACTURER'S CERTIFIED TEST REPORTS
MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS, AND WASHERS		AISC 360 A3.3 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS RCSC 2.1		X			MANUFACTURER'S CERTIFIED TEST REPORTS
MATERIAL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS		AISC 360 A3.4 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS		X			MANUFACTURER'S CERTIFIED TEST REPORTS
MATERIAL VERIFICATION OF WELD FILLER METALS	TABLE 1705.2	AISC 360 A3.5 AISC 360 N3.2 APPLICABLE AWS A5 DOCUMENTS		X			MANUFACTURER'S CERTIFIED TEST REPORTS
STRUCTURAL STEEL WELDING							
VERIFYING USE OF PROPER WPS'S		AISC 360 N3.2					RETAIN A RECORD OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS	1705.2.2.1			X			RETAIN A RECORD OF QUALIFICATION CARDS
COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	TABLE 1705.2	AWS D1.1 SECTION 6	X				
MULTIPASS FILLET WELDS			X				
SINGLE PASS FILLET WELDS GREATER THAN 5/16"			X				ALL WELDS VISUALLY INSPECTED PER AWS D1.16.9
PLUG AND SLOT WELDS			X				
SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"				X			
WELDING STAIR AND RAILING SYSTEMS	1705.2(2.5)	AWS D1.1 SECTION 6		X			ALL WELDS VISUALLY INSPECTED PER AWS D1.1 6.9
VERIFICATION OF FRAME JOINT DETAILS INCLUDING MEMBER AND COMPONENT LOCATIONS, BRACING, AND STIFFENERS	TABLE 1705.2	AISC 360 N5.7		X			
REINFORCING STEEL WELDING							SEE CONCRETET SECTION
STEEL ELEMENTS OF COMPOSITE CONSTRUCTION							
INSTALLATION OF COMPOSITE SLAB DECKING	1705.1.1	ICC EVALUATION REPORT ASCE 9 CHAPTER 3		X			SPECIAL INSPECTIONS APPLY TO DECKING TYPE, DEPTH, GAUGE, AND FASTENING
INSTALLATION OF ROOF DECKING	1705.1.1	ICC EVALUATION REPORT		X			SPECIAL INSPECTIONS APPLY TO DECKING TYPE, DEPTH AND GAUGE, POWER ACTUATED FASTENERS, SCREWS, PROPRIETARY SIDE SEAM ATTACHMENTS, AND BUTTON PUNCHES AND SHEAR CONNECTORS
FLOOR AND ROOF DECK WELDS	TABLE 1705.2	AWS D1.3 SECTION 7		X			ALL WELDS INSPECTED PER AWS D1.3 7.1
WELDING STUDS IN STRUCTURAL DIAPHRAGMS	1705.2 (2.3 and 3)	AISC 360 N6 AWS D1.1 SECTION 7		X			CONTINUOUS INSPECTION IS NOT REQUIRED WHEN WELDS INSTALLED WITH AN AUTOMATICALLY TIMED STUD WELDING MACHINE PER SECTION 7 OF AWS D1.1(ONLY PERIODIC), 1705.2(3) ALL WELDS VISUALLY INSPECTED PER AWS D1.1 7.8.1
PLACEMENT AND INSTALLATION OF STEEL DECK	1705.2	AISC 360 TABLE N6.1				X	
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHOS						X	
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS						X	

TABLE 2A - REQUIRED STRUCTURAL STEEL SPECIAL INSPECTIONS CONT.

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION (NOTES 5 AND 6) CONTINUOUS	INSPECTION (NOTES 5 AND 6) PERIODIC	INSPECTION (NOTES 5 AND 6) OBSERVE	INSPECTION (NOTES 5 AND 6) PERFORM	REMARKS
STEEL CONT.							
HIGH-STRENGTH BOLTING							
SNUG-TIGHT HIGH STRENGTH BOLT INSTALLATION	1705.2.1	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 9 AISC 360 SECTION M2.5		X			ALL CONNECTIONS VISUALLY INSPECTED AND VERIFIED SNUG
PRETENSIONED HIGH STRENGTH BOLT INSTALLATION USING TURN-OF-THE-NUT METHOD WITH MATCH MARKING, DIRECT TENSION INDICATOR METHOD, OR TWIST-OFF TYPE TENSION CONTROL BOLT METHOD	1705.2.1			X			ALL CONNECTIONS VISUALLY INSPECTED. CONNECTIONS USING DIRECT TENSION INDICATORS, ALL BOLTS SHALL BE INSPECTED AFTER SNUGGING AND AFTER PRETENSIONING
PRETENSIONED HIGH STRENGTH BOLT INSTALLATION USING TURN-OF-THE-NUT METHOD WITHOUT MATCH MARKING OR CALIBRATED WRENCH METHOD	1705.2.1		X				ALL CONNECTIONS VISUALLY INSPECTED
INSPECTION TASKS PRIOR TO BOLTING	1705.2	AISC 360 TABLE N5.6-1					
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS						X	
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS					X		
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)					X		
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL					X		
CONNECTING ELEMENTS< INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS					X		
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED					X		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS					X		
INSPECTION TASKS DURING BOLTING	1705.2	AISC 360 TABLE N5.6-2 RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 9					
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED					X		
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION					X		
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING					X		
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES					X		
INSPECTION TASKS AFTER BOLTING	1705.2	AISC 360 TABLE N5.6-3					
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS						X	

TABLE 3 - REQUIRED INSPECTIONS FOR SPECIAL CASES

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6) CONTINUOUS	FREQUENCY (NOTE 6) PERIODIC	REMARKS
PRE-ENGINEERED STRUCTURES					
FABRICATION AND ERECTION	1705.1.1	MBMA	X	X	REFER TO TABLE 2 FOR FABRICATOR, WELDING, AND HIGH STRENGTH BOLTING. SPECIAL INSPECTION REQUIREMENTS AND TABLES 6 AND 7 FOR MATERIAL SPECIFIC TESTING REQUIREMENTS. REFER TO DEFERRED SUBMITTAL FOR ADDITIONAL INFORMATION

TABLE 4 - REQUIRED SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6) CONTINUOUS	FREQUENCY (NOTE 6) PERIODIC	REMARKS
GENERAL					
DESIGNATED SEISMIC LOAD-RESISTING SYSTEMS (SLRS)	1704.3.2 1705.11				REFERENCE GENERAL STRUCTURAL NOTES FOR OUTLINE OF (SLRS) SYSTEM. REFERENCE TABLE 4 FOR MATERIAL SPECIFIC INSPECTIONS REQUIREMENTS
DESIGNATED SEISMIC SYSTEMS (SECONDARY)					REFERENCE TABLE N1 AND N2 FOR INSPECTION REQUIREMENTS
STEEL					
REFERENCE TABLE 4A FOR REQUIRED SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE OF STRUCTURAL STEEL					

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phase: Design Development
date: 4/6/2018
revisions:
project #: 17007

SPECIAL INSPECTION AND TESTING CONT.

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SPECIAL INSPECTION AND TESTING CONT.

TABLE 4A - REQUIRED SPECIAL INSPECTIONS AND QUALITY CONTROL FOR SEISMIC RESISTANCE OF STRUCTURAL STEEL

SYSTEM OR MATERIAL	INSPECTION: OSSC CODE REFERENCE	INSPECTION: CODE OR STANDARD REFERENCE	INSPECTION: QA/QC TASKS (NOTES 5,6,10): OBSERVE	INSPECTION: QA/QC TASKS (NOTES 5,6,10): PERFORM	REMARKS
VISUAL INSPECTION TASKS PRIOR TO WELDING					
MATERIAL IDENTIFICATION (TYPE/GRADE)	1705.11.1	AISC 341 TABLE J6-1 AWS D1.8/D1.8M	X		
WELDER IDENTIFICATION SYSTEM			X		
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)					
JOINT PREPARATION			X (QA)	X (QC)	
DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)			X (QA)	X (QC)	NOTE 7
CLEANLINESS (CONDITION OF STEEL SURFACES)			X (QA)	X (QC)	
TACKING (TACK WELD QUALITY AND LOCATION)			X (QA)	X (QC)	
BACKING TYPE AND FIT (IF APPLICABLE)			X (QA)	X (QC)	
CONFIGURATION AND FINISH OF ACCESS HOLES			X		
FIT-UP OF FILLET WELDS					
DIMENSIONS (ALIGNMENT, GAPS AT ROOT)			X (QA)	X (QC)	
CLEANINESS(CONDITION OF STEEL SURFACES)			X (QA)	X (QC)	NOTE 7
TACKING (TACK WELD QUALITY AND LOCATION)			X (QA)	X (QC)	
VISUAL INSPECTION TASKS DURING WELDING					
WPS FOLLOWED	1705.11.1	AISC 341 TABLE J6-2 AWS D1.8/D1.8M			
SETTINGS ON WELDING EQUIPMENT			X		
TRAVEL SPEED			X		
SELECTED WELDING MATERIALS			X		
SHIELDING GAS TYPE/FLOW RATE			X		
PREHEAT APPLIED			X		
INTERPASS TEMPERATURE MAINTAINED (MIN/MAX.)			X		
PROPER POSITION (F, V, H, OH)			X		
INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED			X		
USE OF QUALIFIED WELDERS			X		
CONTROL AND HANDLING OF WELDING CONSUMABLES					
PACKAGING			X		
EXPOSURE CONTROL			X		
ENVIRONMENTAL CONDITIONS					
WIND SPEED WITHIN LIMITS			X		
PRECIPITATION AND TEMPERATURE			X		
WELDING TECHNIQUES					
INTERPASS AND FINAL CLEANING			X		
EACH PASS WITHIN PROFILE LIMITATIONS			X		
EACH PASS MEETS QUALITY REQUIREMENTS			X		
NO WELDING OVER CRACKED TACKS			X		
WELDS CLEANED			X		
VISUAL INSPECTION TASKS AFTER WELDING					
SIZE, LENGTH, AND LOCATION OF WELDS	1705.11.1	AISC 341 TABLE J6-3 AWS D1.8/D1.8M		X(D)	THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
WELDS MEET VISUAL ACCEPTANCE CRITERIA					
CRACK PROHIBITION				X(D)	
WELD/BASE-METAL FUSION				X(D)	
CRATER CROSS SECTION				X(D)	
WELD PROFILE AND SIZE				X(D)	
UNDERCUT				X(D)	
POROSITY				X(D)	
PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)				X(D)	
BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED (IF REQUIRED)				X(D)	
REPAIR ACTIVITIES				X(D)	
INSPECTION TASKS PRIOR TO BOLTING					
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL	1705.11.1	AISC 341 TABLE J7-1 RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS	X		
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL			X		
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS			X		
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED FOR FASTENER ASSEMBLIES AND METHODS USED			X (QA)	X (QC)(D)	THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS			X		
INSPECTION TASKS DURING BOLTING					
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	1705.11.1	AISC 341 TABLE J7-2 RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS	X		
JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION			X		
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING			X		
BOLTS ARE PRETENSIONED PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES			X		
INSPECTION TASKS AFTER BOLTING					
DOCUMENT ACCEPTED AND REJECTED CONNECTION	1705.11.1	AISC 341 TABLE J7-3		X(D)	THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
OTHER INSPECTION TASKS					
RBS REQUIREMENTS, IF APPLICABLE	1705.11.1	AISC 341 TABLE J8-1 AISC 358 5.7			
CONTOUR AND FINISH				X(D)	THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
DIMENSIONAL TOLERANCES				X(D)	
PROTECTED ZONE - NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR, AS APPLICABLE		AISC 341 TABLE J8-1 AISC 341 D1.3 AISC 341 I2.1		X(D)	THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
INSPECTION OF COMPOSITE STRUCTURES PRIOR TO CONCRETE PLACEMENT					
MATERIAL IDENTIFICATION OF REINFORCING STEEL (TYPE/GRADE)	1705.11.1	AISC 341 TABLE J9-1	X		REFER TO TABLE 2 STRUCTURAL SPECIAL INSPECTION
DETERMINATION OF CARBON EQUIVALENT FOR REINFORCING STEEL OTHER THAN ASTM A706			X		
PROPER REINFORCING STEEL SIZE, SPACING AND ORIENTATION			X		
REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD			X		
REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED			X		
REQUIRED REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED			X		
COMPOSITE MEMBER HAS REQUIRED SIZE			X		
INSPECTION OF COMPOSITE STRUCTURES DURING CONCRETE PLACEMENT					
CONCRETE: MATERIAL IDENTIFICATION (MIX DESIGN, COMPRESSIVE STRENGTH, MAXIMUM LARGE AGGREGATE SIZE, MAXIMUM SLUMP)	1705.11.1	AISC 341 TABLE J9-2 ASTM C39, ASTM C143	X		THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
LIMITS ON WATER ADDED AT THE TRUCK OR PUMP			X		THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
PROPER PLACEMENT TECHNIQUES TO LIMIT SEGREGATION			X		
INSPECTION OF COMPOSITE STRUCTURES AFTER CONCRETE PLACEMENT					
ACHIEVEMENT OF MINIMUM SPECIFIED CONCRETE COMPRESSIVE STRENGTH AT SPECIFIED AGE	1705.11.1	AISC 341 TABLE J9-3 ASTM C39		D	THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

TESTING

TABLE 6 - REQUIRED TESTING FOR SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION: OSSC CODE REFERENCE	INSPECTION: CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6): CONTINUOUS	FREQUENCY (NOTE 6): PERIODIC	REMARKS
GEOTECHNICAL					
FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY	1705.6	VARIES; GEOTECHNICAL REPORT OR MINIMUM PER IBC APPENDIX J107.5, WHICHEVER IS GREATER		X	BY THE GEOTECHNICAL ENGINEER
MATERIAL VERIFICATION		VARIES; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		X	BY THE GEOTECHNICAL ENGINEER
CONCRETE					
CONCRETE STRENGTH	1705.3 ASTM C172 ASTM C 31 ACI318:5.6,5.8	ASTM C39	EACH 150 CY NOR LESS THAN EACH 5000 SF OF SLAB OR WALL PLACED EACH SHIFT		FABRICATE SPECIMENS AT TIME FRESH CONCRETET IS PLACED
CONCRETE SLUMP		ASTM C143			
CONCRETE AIR CONTENT		ASTM C231			
CONCRETE TEMPERATURE		ASTM C1064			
MASONRY (SEE TESTING NOTE 2)					
MASONRY LEVEL B QUALITY ASSURANCE - Minimum Tests					
Verification of slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with Specification Article 1.5 B.1.b.3 for self-consolidating grout					
Verification of f'm and f'AAC in accordance with Specification Article 1.4 B prior to construction, except where specifically exempted by this Code					
MASONRY LEVEL C QUALITY ASSURANCE- Minimum Tests					
STEEL					
ULTRASONIC (UT) TESTING OF WELDS	1705.2.2	AWS D1.1 6.13 & 6.14.3			ALL C.J.P. WELDS 5/16" AND THICKER REQUIRE UT TESTING.
MAGNETIC PARTICLE (MT) TESTING OF WELDS	1705.2.2	AWS D1.1 6.14.4 AISC360 N5.5c			REQUIRED AT THERMALLY CUT ACCESS HOLES WHERE FLANGE THICKNESS EXCEEDS 2" FOR ROLLED SHAPES OR WHEN THE WEB THICKNESS EXCEEDS 2" FOR BUILT-UP SHAPES. REQUIRED WHERE SPECIFICALLY NOTED ON DRAWINGS OR AS DIRECTED BY KPFF AT WELDS IDENTIFIED TO BE IN QUESTION BASED ON INSPECTIONS
PRE-CONSTRUCTION TESTING OF WELDING STUDS	1705.2.2	AWS D1.1 7.7.1	EACH SIZE AND TYPE OF STUD EACH SHIFT		THIS TESTING PERFORMED BY CONTRACTOR AND CONFIRMED BY SPECIAL INSPECTOR
STUD APPLICATION QUALIFICATION	1705.2.2	AWS D1.1 7.6	NON-PREQUALIFIED APPLICATIONS		THIS TESTING PERFORMED BY CONTRACTOR AND CONFIRMED BY SPECIAL INSPECTOR
PRE-INSTALLATION VERIFICATION OF PRETENSIONED HIGH STRENGTH BOLTS	1705.2.2	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 7	EACH COMBINATION OF DIAMETER, LENGTH, GRADE, AND LOT TO BE USED IN THE WORK		

TABLE 7 - REQUIRED TESTING FOR SEISMIC RESISTANCE SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION: OSSC CODE REFERENCE	INSPECTION: CODE OR STANDARD REFERENCE	INSPECTION: FREQUENCY	REMARKS
CONCRETE REINFORCEMENT				
TEST A615 REINFORCEMENT IN SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS, AND END COUPLING BEAMS CONNECTING STRUCTURAL WALLS	1705.12.1	ACI 318: 21.1.5.2		NOT REQUIRED WHEN CERTIFIED MILL TEST REPORTS ARE PROVIDED. REFERENCE DRAWINGS FOR LOCATIONS
TEST A615 REINFORCEMENT FOR WELDABILITY WHEN SUCH REINFORCEMENT IS TO BE WELDED	1705.12.1	ACI 318: 3.5.2		
STEEL				
REFERENCE TABLE 7A FOR REQUIRED TESTING FOR SEISMIC RESISTANCE SPECIAL INSPECTIONS OF STRUCTURAL STEEL				

TABLE 7A - REQUIRED TESTING FOR SEISMIC RESISTANCE SPECIAL INSPECTIONS OF STRUCTURAL STEEL

SYSTEM OR MATERIAL	INSPECTION: OSSC CODE REFERENCE	INSPECTION: CODE OR STANDARD REFERENCE	INSPECTION: DESCRIPTION/FREQUENCY	REMARKS
2a) k-AREA NDT AT WELDING OF DOUBLER PLATES, COINTINUTITY PLATES OR STIFFENERS	1705.12.2	AISC 341 SECTION J6	WEB SHALL BE TESTED FOR CRACKS USING MT INCLUDING BASE METTAL WITHIN 3 IN OF WELD.	MT SHALL BE PERFORMED NO SOONER THAN 48 HOURS AFTER COMPLETION OF WELDING
2b) CJP GROOVE WELD NDT			UT SHALL BE PERFORMED ON 5/16" THICKNESS AND GREATER. MT SHALL BE PEROFMED ON 25% OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.	WELD DISCONTINUITIES SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF CRITERIA OF AWS D1.1/D1.1M TABLE 6.2. UT TESTING NOT REQUIRED ON THICKNESS LESS THAN 5/16"
2c) BASE METAL NDT FOR LAMELLAR TEARING AND LAMINATIONS			FOR BASE METAL THICKNESS (t) OF 1 1/2" AND GREATER AND CONNECTED MATERIAL THICKNESS OF 3/4" AND GREATER, UT FOR DISCONTINUITIES BEHIND AND ADJACENT TO THE FUSION LINE.	ANY BASE METAL DISCONTINUITIES FOUND WITHIN 1/4 OF THE STEEL SURFACE SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF THE CRITERIA OF AWS D1.1/D1.1M TABLE 6.2
2d) BEAM COPE AND ACCESS HOLE NDT			MT OR PENETRANT TESTING OF WELD SPLICES AND CONNECTIONS, THERMALLY CUT SURFACES OF BEAM COPES AND ACCESS HOLES WHERE FLANGE THICKNESS EXCEEDS 1 1/2" FOR ROLLED SHAPES OR WHEN THE WEB THICKNESS EXCEEDS 1 1/2" FOR BUILT-UP SHAPES	
2e) REDUCED BEAM SECTION REPAIR NDT			MT SHALL BE PERFORMED ON ANY WELD AND ADJACENT AREA OF THE RBS CUT SRUFACE THAT HAS BEEN REPAIRED BY WELDING OR ON THE BASE METAL OF THE RBS CUT SURFACE IF A SHARP NOTCH HAS BEEN REMOVED BY GRINDING	
2f) WELD TAB REMOVAL SITES			AT THE END OF WELDS WHERE WELD TABS HAVE BEEN REMOVED, MT SHALL BE PERFORMED ON THE SAME BEAM-TO-COLUMN JOINTS RECEIVING UT AS REQUIRED UNDER ITEM 2b	MT OF CONTINUTITY PLATE WELD TABS REMOVAL SITES IS NOT REQUIRED.

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SPECIAL INSPECTION AND TESTING CONT.

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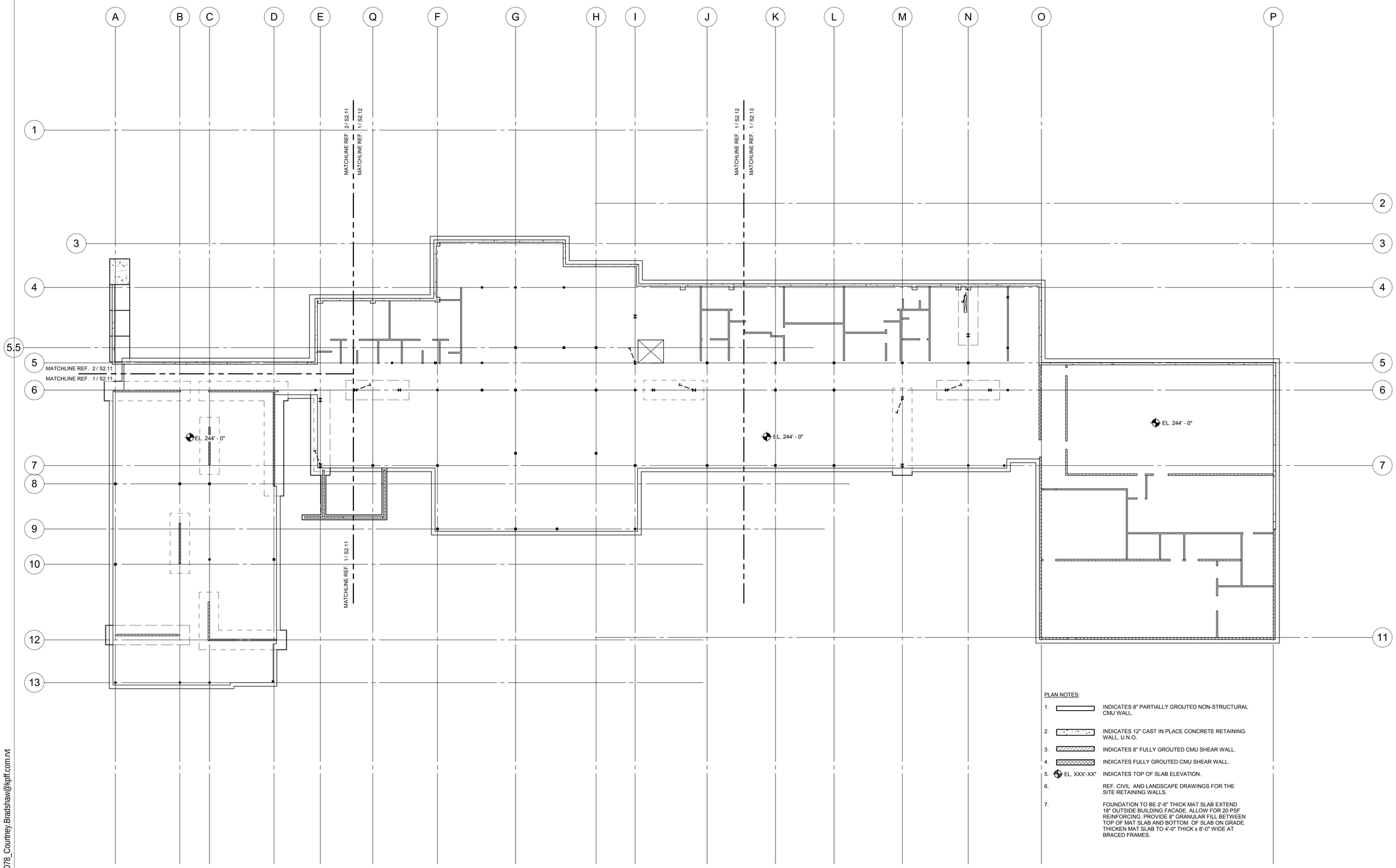

PLAN NOTES:

1. INDICATES 8" PARTIALLY GROUTED NON-STRUCTURAL CMU WALL.
2. INDICATES 12" CAST IN PLACE CONCRETE RETAINING WALL, U.N.O.
3. INDICATES 8" FULLY GROUTED CMU SHEAR WALL.
4. INDICATES FULLY GROUTED CMU SHEAR WALL.
5. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
6. REF. CIVIL AND LANDSCAPE DRAWINGS FOR THE SITE RETAINING WALLS.
7. FOUNDATION TO BE 2'-6" THICK MAT SLAB EXTEND 18" OUTSIDE BUILDING FACADE. ALLOW FOR 20 PSF REINFORCING. PROVIDE 8" GRANULAR FILL BETWEEN TOP OF MAT SLAB AND BOTTOM OF SLAB ON GRADE. THICKEN MAT SLAB TO 4'-0" THICK x 8'-0" WIDE AT BRACED FRAMES.

1 OVERALL FOUNDATION PLAN
1/16" = 1'-0"

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OVERALL FOUNDATION PLAN - LEVEL 1

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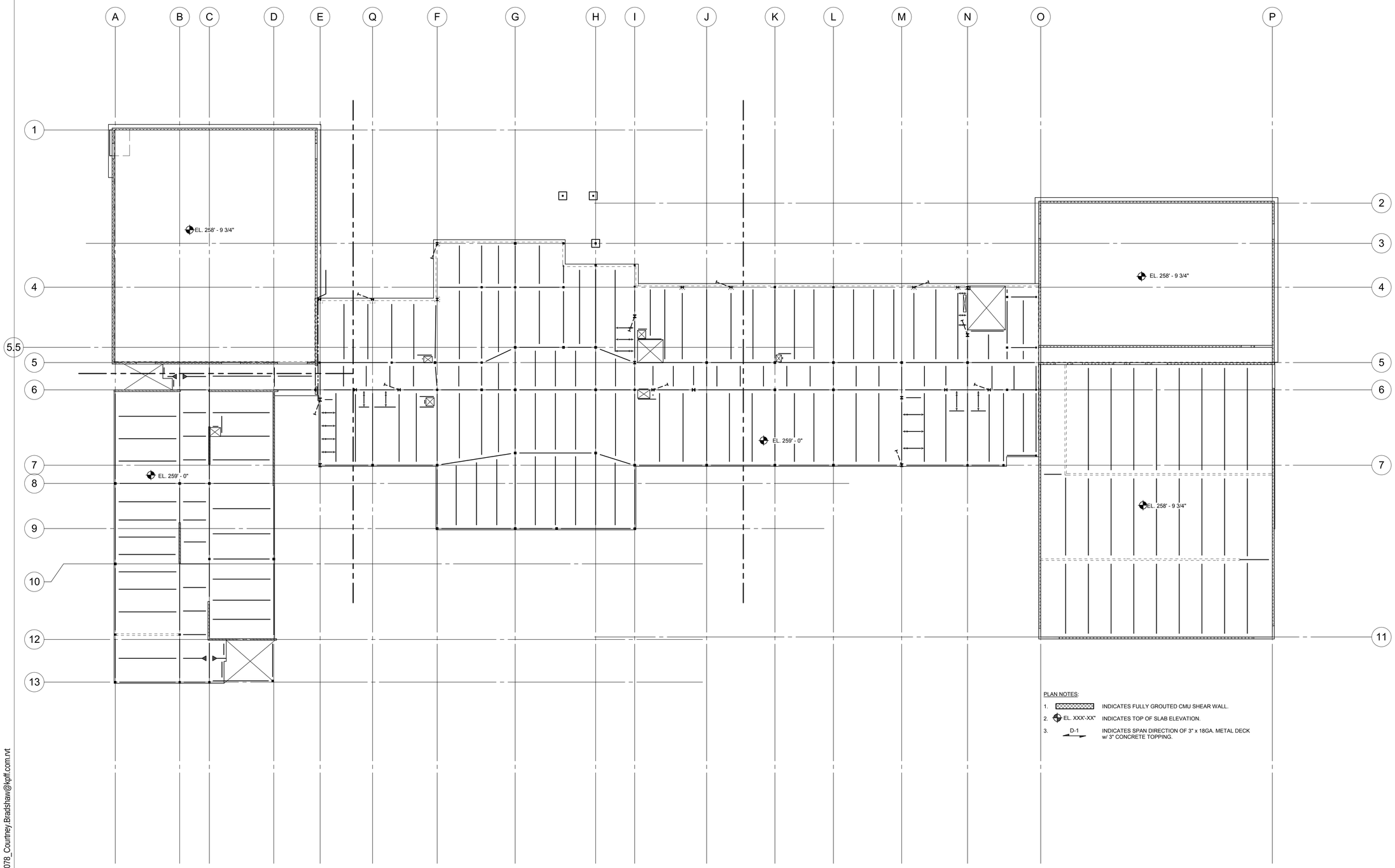

PLAN NOTES:

1. INDICATES FULLY GROUTED CMU SHEAR WALL.
2. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
3. D-1 INDICATES SPAN DIRECTION OF 3" x 18GA. METAL DECK w/ 3" CONCRETE TOPPING.

1 OVERALL FRAMING PLAN - LEVEL 2
1/16" = 1'-0"

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OVERALL FRAMING PLAN - LEVEL 2

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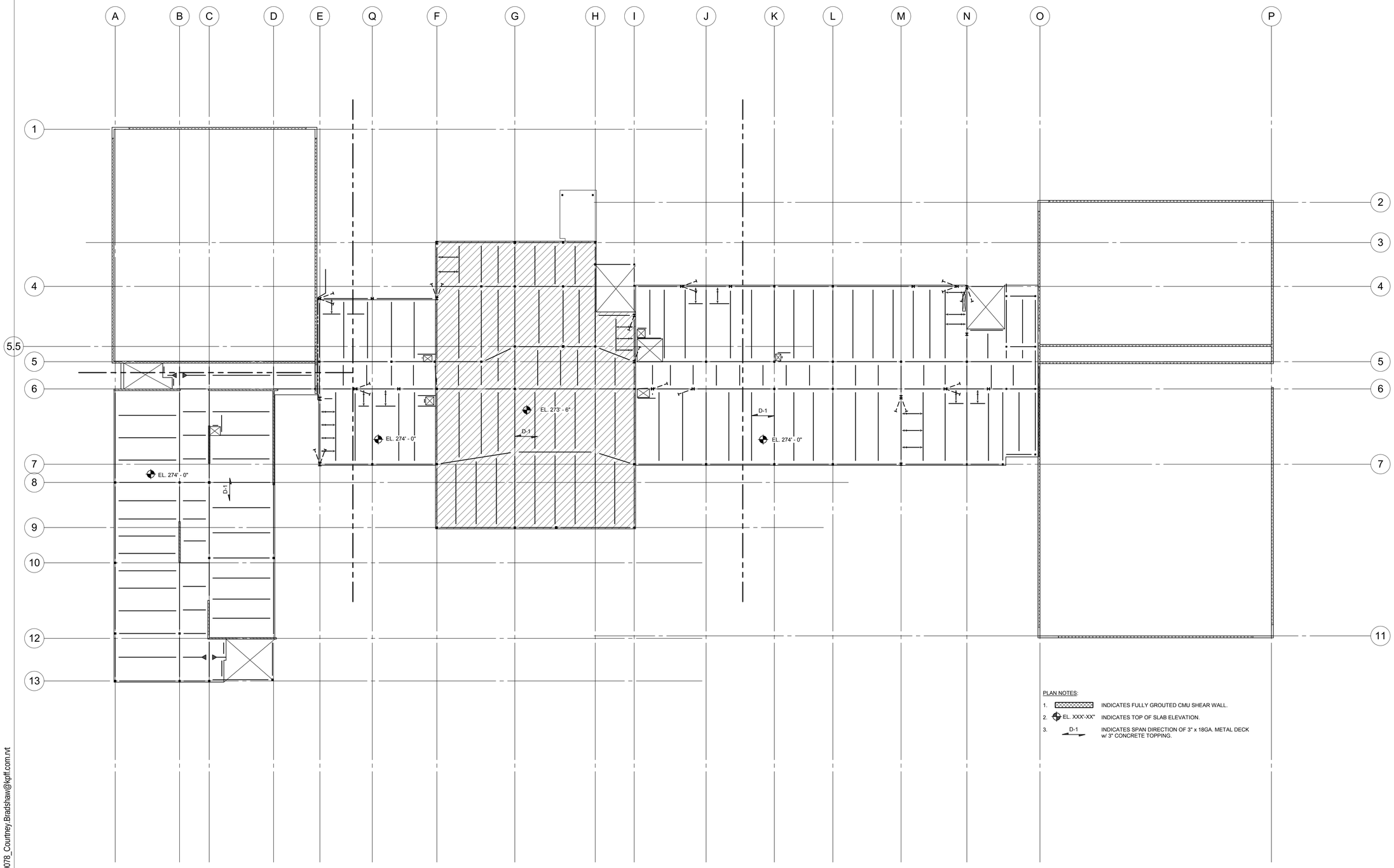

PLAN NOTES:

1. INDICATES FULLY GROUTED CMU SHEAR WALL.
2. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
3. D-1 INDICATES SPAN DIRECTION OF 3" x 18GA. METAL DECK w/ 3" CONCRETE TOPPING.

1 OVERALL FRAMING PLAN - LEVEL 3
1/16" = 1'-0"

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OVERALL FRAMING PLAN - LEVEL 3

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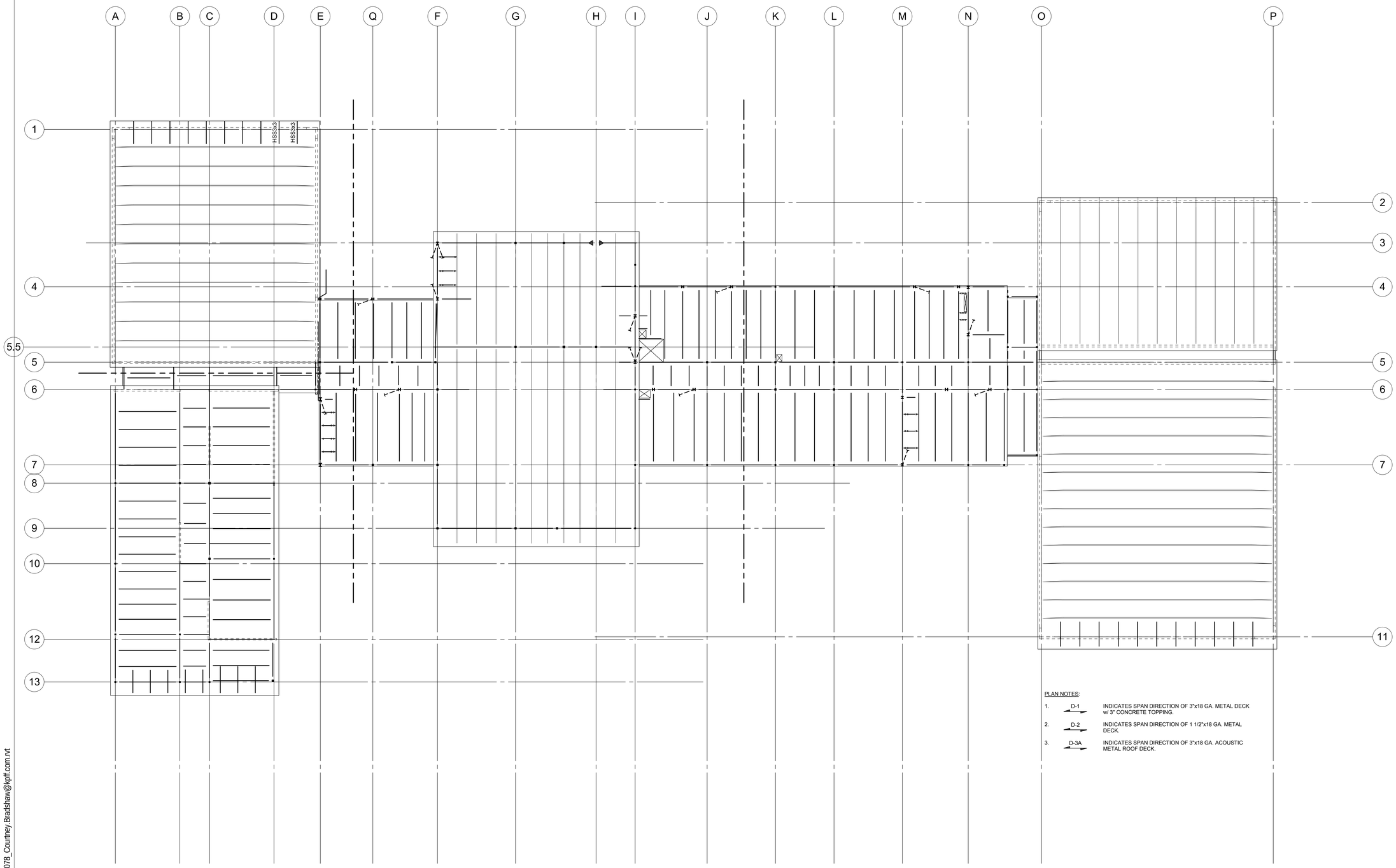

PLAN NOTES:

1. D-1 — INDICATES SPAN DIRECTION OF 3"x18 GA. METAL DECK w/ 3" CONCRETE TOPPING.
2. D-2 — INDICATES SPAN DIRECTION OF 1 1/2"x18 GA. METAL DECK.
3. D-3A — INDICATES SPAN DIRECTION OF 3"x18 GA. ACOUSTIC METAL ROOF DECK.

1 OVERALL FRAMING PLAN - ROOF
1/16" = 1'-0"

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OVERALL FRAMING PLAN - ROOF

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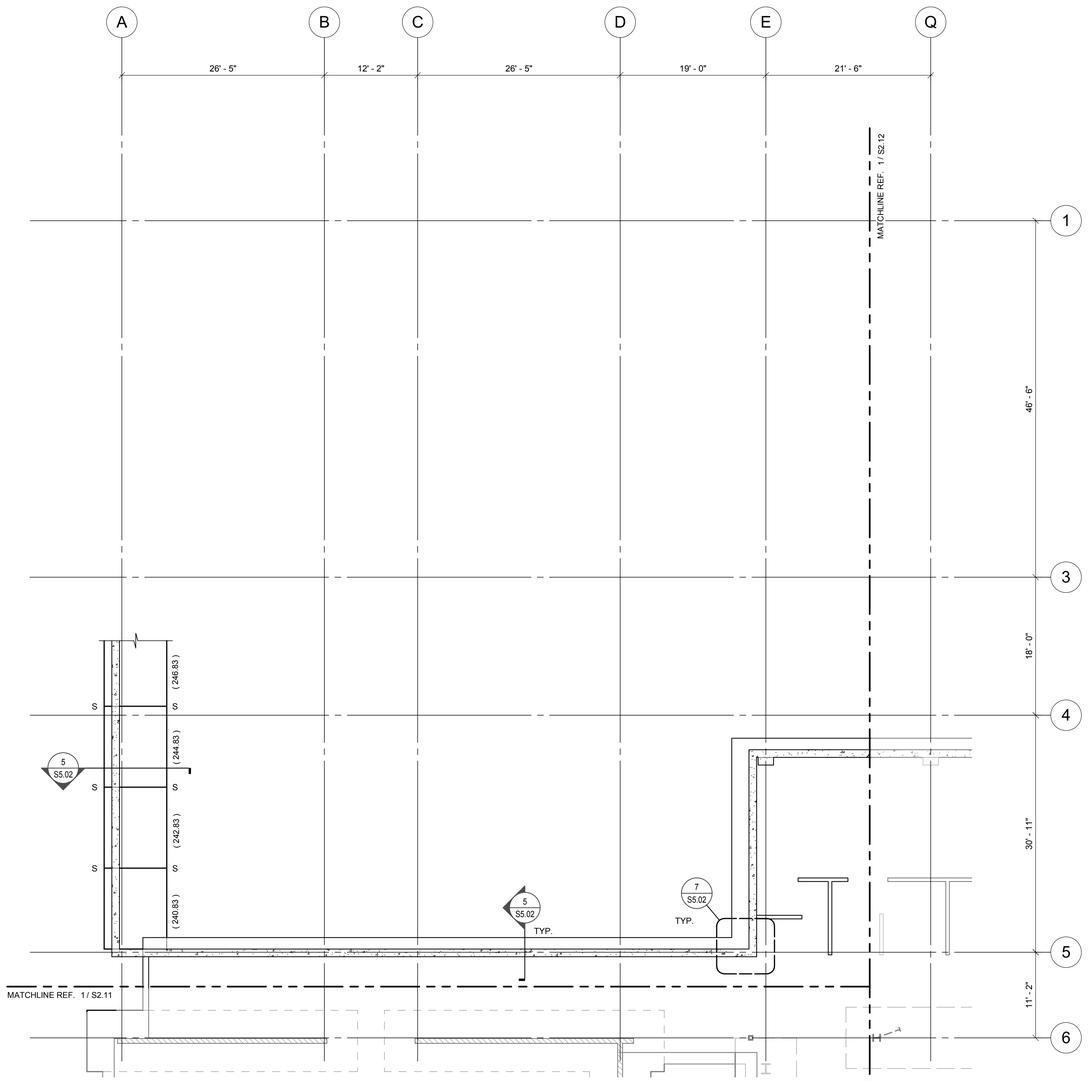
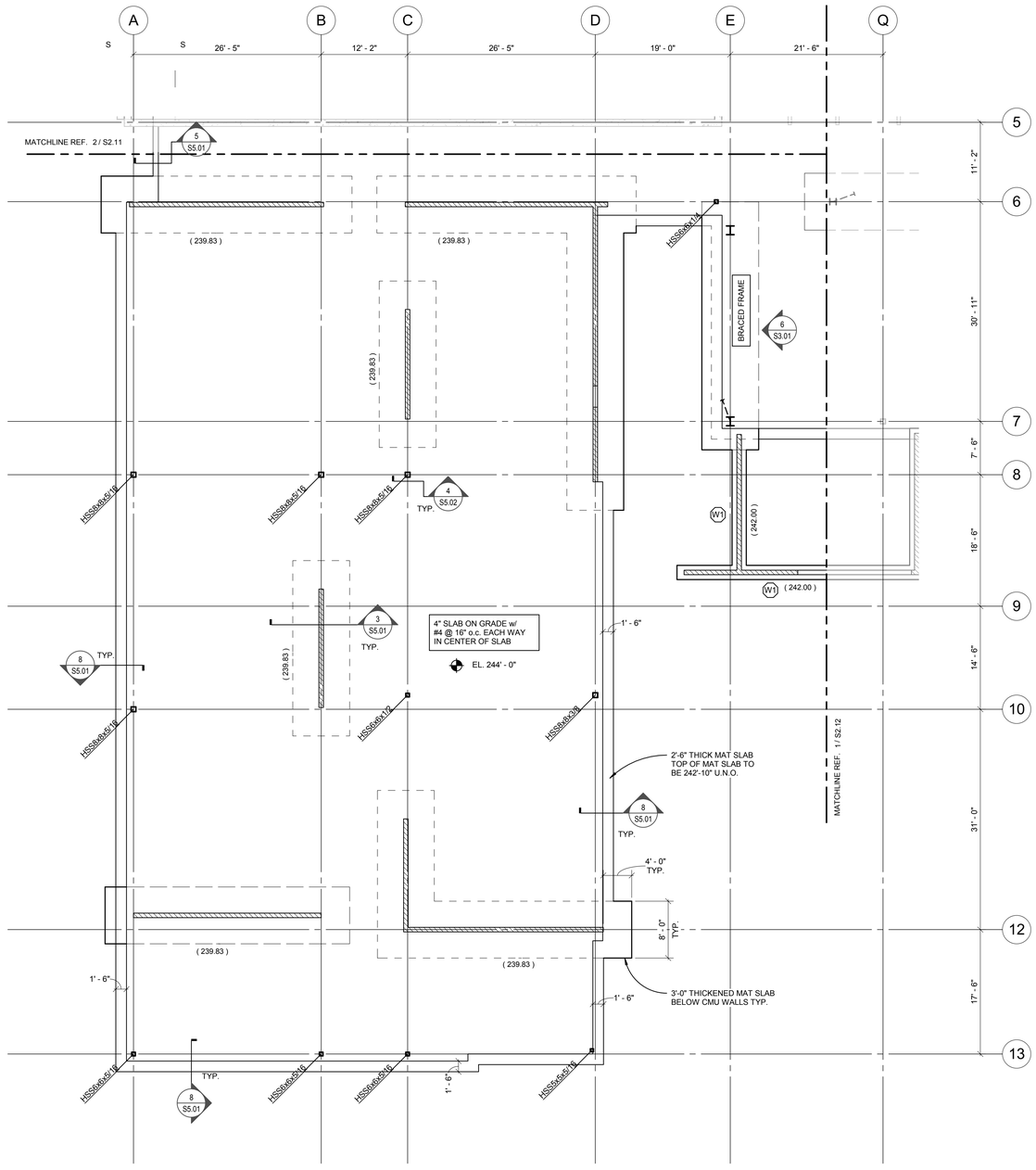


2 FOUNDATION PLAN LEVEL 1 - SECTOR A2
1/8" = 1'-0"



1 FOUNDATION PLAN LEVEL 1 - SECTOR A1
1/8" = 1'-0"

SPREAD FOOTING SCHEDULE

MARK	SIZE LENGTHxWIDTH	"T"	REINFORCING
A	3'-0"x3'-0"	1'-0"	(4) #5 EACH WAY BOTTOM
B	4'-0"x4'-0"	1'-6"	(4) #6 EACH WAY BOTTOM
C	5'-0"x5'-0"	1'-6"	(5) #6 EACH WAY BOTTOM

WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	LONGITUDINAL REINFORCING	TRANSVERSE REINFORCING
W1	2'-0"	1'-0"	(3) #5	#5 @ 12" o.c.
W2	3'-0"	1'-0"	(4) #5	#5 @ 12" o.c.

NOTES:

1. (XXX.XX) INDICATES BOTTOM OF FOOTING ELEVATION.
2. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
3. INDICATES STEP IN ELEVATION REF. 15/S5.01 FOR STEP IN SLAB ON GRADE.
4. S S INDICATES STEPPED FOOTING. REF. 13/S5.01 FOR STEP IN STRIP FOOTING.
5. REF. SHEET S5.01 AND S5.02 FOR TYPICAL CONCRETE DETAILS.
6. INDICATES 6" NON-STRUCTURAL CMU WALL.
7. INDICATES 8" CMU SHEAR WALL. REF. GENERAL STRUCTURAL NOTES FOR WALL REINF. U.N.O.
8. INDICATES 10" CMU SHEAR WALL. REF. GENERAL STRUCTURAL NOTES FOR WALL REINF. U.N.O.
9. INDICATES 12" CONCRETE RETAINING WALL. REF. 5/S5.02
10. REF. ARCH. FOR SLAB EDGE DIMENSIONS.
11. REF. ARCH. FOR CMU WALL LOCATIONS AND OPENINGS.
12. REF. CIVIL AND LANDSCAPE DRAWINGS FOR SITE RETAINING WALLS.
13. REF. CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR GRADE AND COORDINATE w/ FOUNDATION ELEVATIONS.

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FOUNDATION PLAN LEVEL 1 - SECTOR A

S2.11

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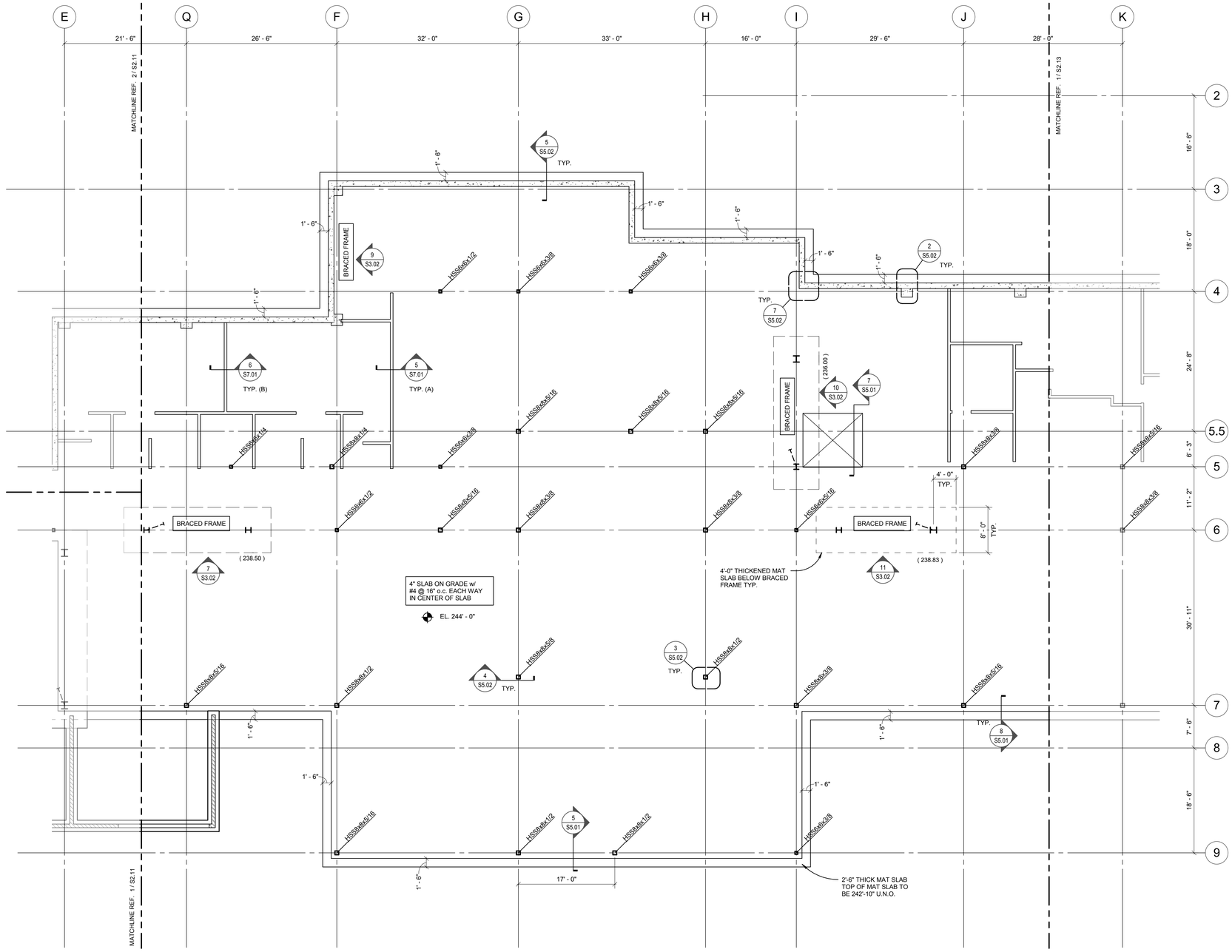

SPREAD FOOTING SCHEDULE

MARK	SIZE LENGTHxWIDTH	"T"	REINFORCING
A	3'-0"x3'-0"	1'-0"	(4) #5 EACH WAY BOTTOM
B	4'-0"x4'-0"	1'-6"	(4) #6 EACH WAY BOTTOM
C	5'-0"x5'-0"	1'-6"	(5) #6 EACH WAY BOTTOM

WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	LONGITUDINAL REINFORCING	TRANSVERSE REINFORCING
W1	2'-0"	1'-0"	(3) #5	#5 @ 12" o.c.
W2	3'-0"	1'-0"	(4) #5	#5 @ 12" o.c.

NOTES:

1. (XXX.XX) INDICATES BOTTOM OF FOOTING ELEVATION.
2. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
3. INDICATES STEP IN ELEVATION REF. 15/S5.01 FOR STEP IN SLAB ON GRADE.
4. S 6 INDICATES STEPPED FOOTING. REF. 13/S5.01 FOR STEP IN STRIP FOOTING.
5. REF. SHEET S5.01 AND S5.02 FOR TYPICAL CONCRETE DETAILS.
6. INDICATES 6" NON-STRUCTURAL CMU WALL.
7. INDICATES 8" CMU SHEAR WALL. REF. GENERAL STRUCTURAL NOTES FOR WALL REINF. U.N.O.
8. INDICATES 10" CMU SHEAR WALL. REF. GENERAL STRUCTURAL NOTES FOR WALL REINF. U.N.O.
9. INDICATES 12" CONCRETE RETAINING WALL. REF. 5/S5.02
10. REF. ARCH. FOR SLAB EDGE DIMENSIONS.
11. REF. ARCH. FOR CMU WALL LOCATIONS AND OPENINGS.
12. REF. CIVIL AND LANDSCAPE DRAWINGS FOR SITE RETAINING WALLS.
13. REF. CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR GRADE AND COORDINATE w/ FOUNDATION ELEVATIONS.

1 FOUNDATION PLAN LEVEL 1 - SECTOR B
1/8" = 1'-0"

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revisions	
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FOUNDATION PLAN LEVEL 1 - SECTOR B

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SPREAD FOOTING SCHEDULE

MARK	SIZE LENGTHxWIDTH	"T"	REINFORCING
A	3'-0"x3'-0"	1'-0"	(4) #5 EACH WAY BOTTOM
B	4'-0"x4'-0"	1'-6"	(4) #6 EACH WAY BOTTOM
C	5'-0"x5'-0"	1'-6"	(5) #6 EACH WAY BOTTOM

WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	LONGITUDINAL REINFORCING	TRANSVERSE REINFORCING
W1	2'-0"	1'-0"	(3) #5	#5 @ 12" o.c.
W2	3'-0"	1'-0"	(4) #5	#5 @ 12" o.c.

NOTES:

1. (XXX.XX) INDICATES BOTTOM OF FOOTING ELEVATION.
2. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
3. INDICATES STEP IN ELEVATION REF. 15/S5.01 FOR STEP IN SLAB ON GRADE.
4. INDICATES STEPPED FOOTING. REF. 13/S5.01 FOR STEP IN STRIP FOOTING.
5. REF. SHEET S5.01 AND S5.02 FOR TYPICAL CONCRETE DETAILS.
6. INDICATES 6" NON-STRUCTURAL CMU WALL.
7. INDICATES 8" CMU SHEAR WALL. REF. GENERAL STRUCTURAL NOTES FOR WALL REINF. U.N.O.
8. INDICATES 10" CMU SHEAR WALL. REF. GENERAL STRUCTURAL NOTES FOR WALL REINF. U.N.O.
9. INDICATES 12" CONCRETE RETAINING WALL. REF. 5/S5.02
10. REF. ARCH. FOR SLAB EDGE DIMENSIONS.
11. REF. ARCH. FOR CMU WALL LOCATIONS AND OPENINGS.
12. REF. CIVIL AND LANDSCAPE DRAWINGS FOR SITE RETAINING WALLS.
13. REF. CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR GRADE AND COORDINATE w/ FOUNDATION ELEVATIONS.

1 FOUNDATION PLAN LEVEL 1 - SECTOR C
1/8" = 1'-0"

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date	4/6/2018
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project #	17007

FOUNDATION PLAN LEVEL 1 - SECTOR C

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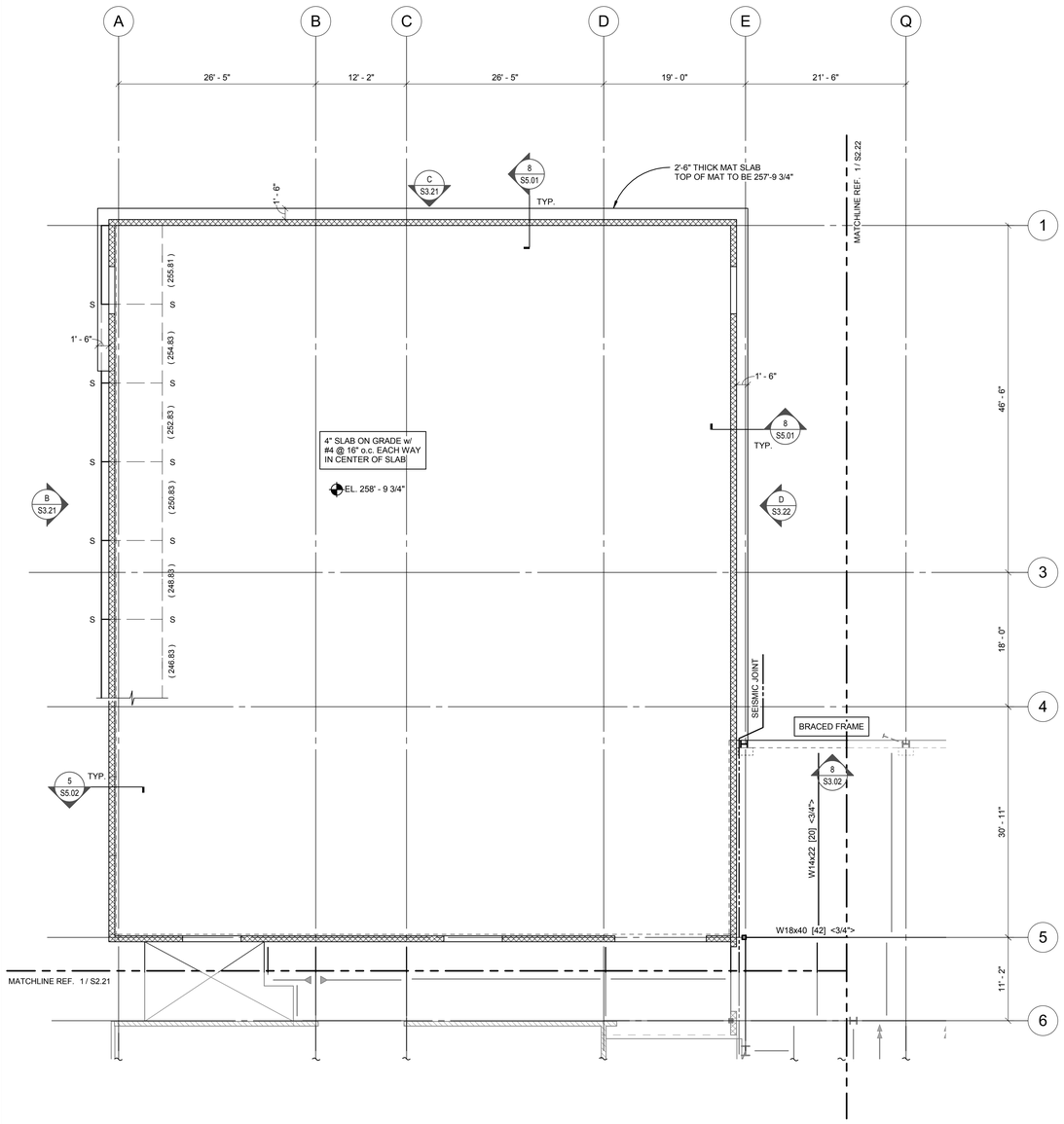
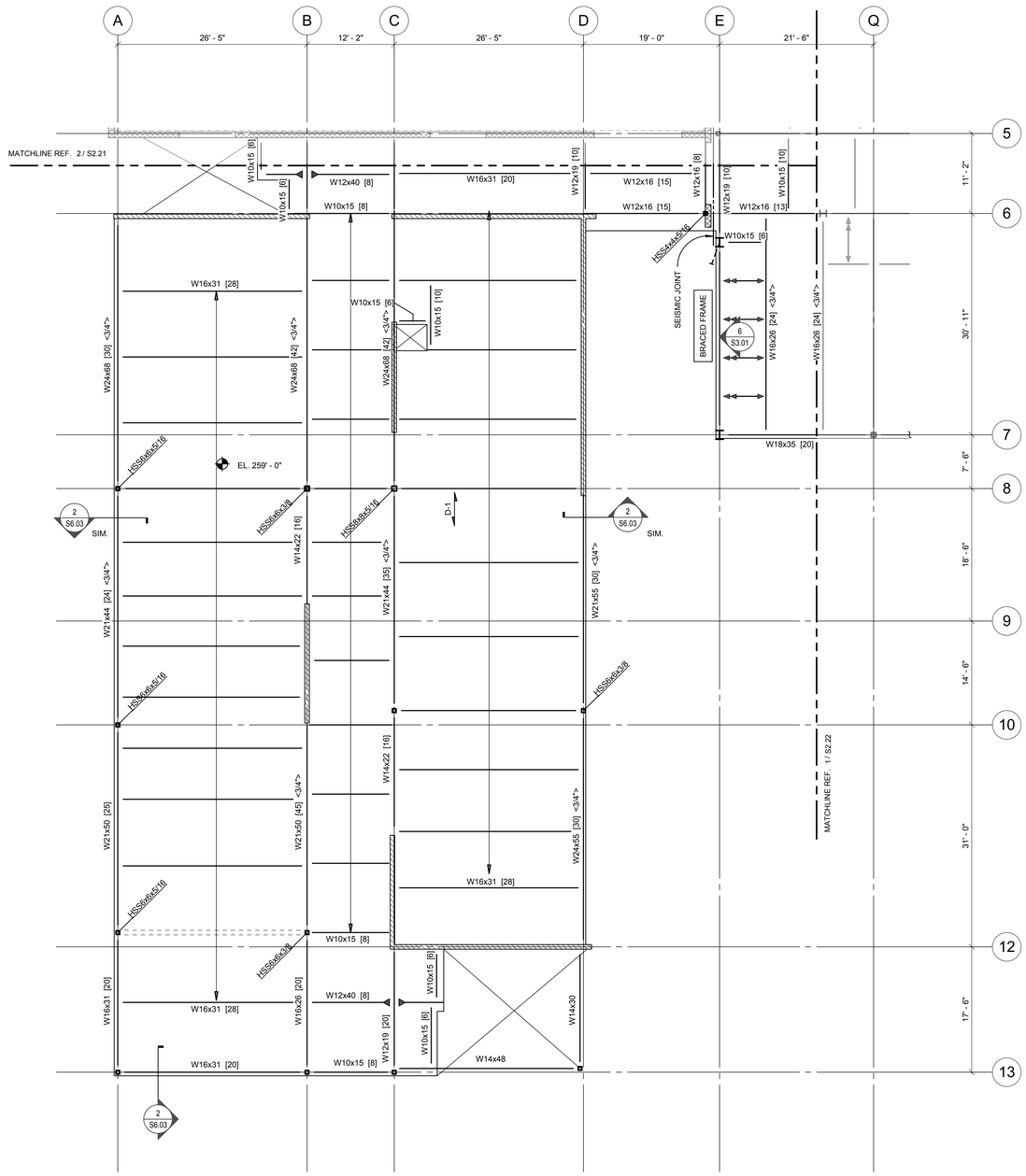


2 FRAMING PLAN LEVEL 2 - SECTOR A2

1/8" = 1'-0"



1 FRAMING PLAN LEVEL 2 - SECTOR A1

1/8" = 1'-0"

NOTES:

1. REF. SHEET S6.01-S6.05 FOR TYPICAL STEEL DETAILS.
2. BEAMS ARE EQUALLY SPACED IN BAYS U.N.O.
3. BEAMS ARE CENTERED ON COLUMNS, WALLS AND/OR GRID LINES, U.N.O
4. [X] INDICATES CONNECTION TYPE. REF. SHEETS S6.01-S6.02 FOR SCHEDULES AND CONNECTION DETAILS. REF. NOTE 6 WHERE CONNECTION TYPES ARE NOT SHOWN.
5. [XC] INDICATED CONNECTION TYPE TO CONCRETE REF. 1/S6.02 FOR DETAIL.
6. PROVIDE THE FOLLOWING CONNECTION TYPES UNLESS NOTED OTHERWISE ON THE PLANS:

BEAM DESIGNATION	CONNECTION TYPE
W8	2D
W10	2
W12, W14	3
W16, W18	4
W21, W24	5
W27, W30	6
W33, W36	7

7. [XX] INDICATES NUMBER OF 3/4"Ø x4 1/2" HEADED STUDS EVENLY DISTRIBUTED ALONG BEAM LENGTH. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
8. [X-X-X] INDICATES NUMBER OF 3/4"Ø x4 1/2" HEADED STUDS EVENLY DISTRIBUTED BETWEEN WF BEAMS ON WF GIRDERS. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
9. <X"> INDICATES UPWARD CAMBER AT MID SPAN.
10. D - X INDICATES SPAN DIRECTION OF DECK. REF. SCHEDULE 1/S6.03 FOR DECK INFORMATION.
11. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
12. EL. XXX'-XX" INDICATES BOTTOM OF DECK ELEVATION.
13. INDICATES MOMENT CONNECTION. REF. 2/S6.02 AND 3/S6.02 FOR DETAILS.
14. INDICATES SFRS COLLECTOR CONNECTION. REF. X/S6.0X FOR DETAILS.
15. INDICATES DIAGONAL BRACING AT WF BEAM. REF. 1/S6.05 AND 2/S6.05.
16. X INDICATES BEAM PENETRATION. REF. SCHEDULE 7/S6.02.
17. REF. SHEET S6.04 FOR TYPICAL DECK REINFORCING AT OPENINGS.
18. (A) INDICATES ABOVE.
19. (B) INDICATES BELOW.
20. INDICATES COLUMN BELOW.
21. INDICATES OSHA TIE OFF. REF. ***SS013.09 - SS013.11*** FOR CONNECTION DETAILS.
22. XXX INDICATES MEMBER PART OF SEISMIC FORCE RESISTING SYSTEM (SFRS). REF. GENERAL STRUCTURAL NOTES, SPECIFICATIONS, AND DETAILS FOR REQUIREMENTS.

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FRAMING PLAN LEVEL 2 - SECTOR A

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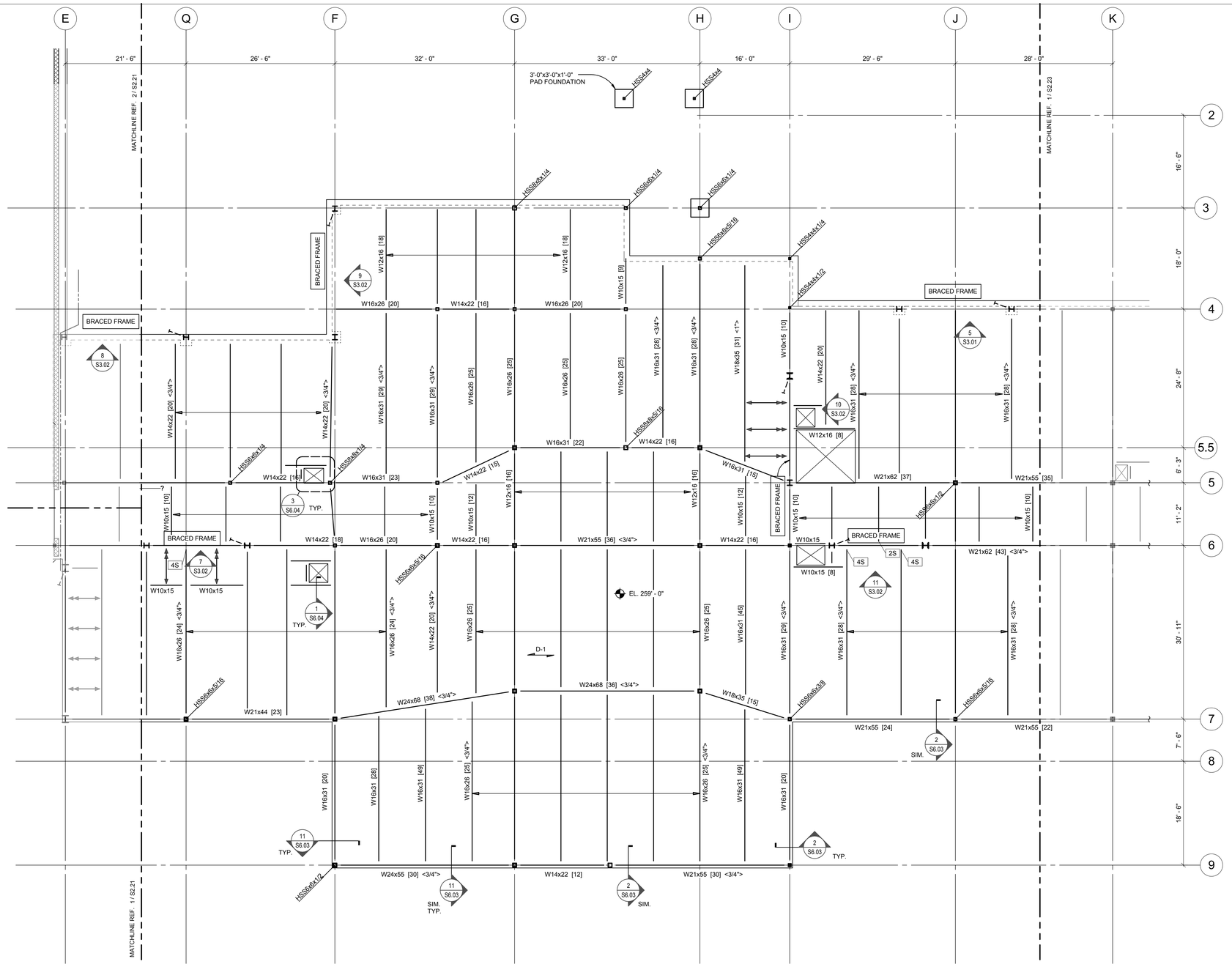

1 FRAMING PLAN LEVEL 2 - SECTOR B

1/8" = 1'-0"

NOTES:

1. REF. SHEET S6.01-S6.05 FOR TYPICAL STEEL DETAILS.
2. BEAMS ARE EQUALLY SPACED IN BAYS U.N.O.
3. BEAMS ARE CENTERED ON COLUMNS, WALLS AND/OR GRID LINES, U.N.O
4. [X] INDICATES CONNECTION TYPE. REF. SHEETS S6.01-S6.02 FOR SCHEDULES AND CONNECTION DETAILS. REF. NOTE 6 WHERE CONNECTION TYPES ARE NOT SHOWN.
5. [XC] INDICATED CONNECTION TYPE TO CONCRETE REF. 1/S6.02 FOR DETAIL.
6. PROVIDE THE FOLLOWING CONNECTION TYPES UNLESS NOTED OTHERWISE ON THE PLANS:

BEAM DESIGNATION	CONNECTION TYPE
W8	2D
W10	2
W12, W14	3
W16, W18	4
W21, W24	5
W27, W30	6
W33, W36	7

7. [XX] INDICATES NUMBER OF 3/4"Ø x4 1/2" HEADED STUDS EVENLY DISTRIBUTED ALONG BEAM LENGTH. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
8. [X-X-X] INDICATES NUMBER OF 3/4"Ø x4 1/2" HEADED STUDS EVENLY DISTRIBUTED BETWEEN WF BEAMS ON WF GIRDERS. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
9. <X"> INDICATES UPWARD CAMBER AT MID SPAN.
10. D - X INDICATES SPAN DIRECTION OF DECK. REF. SCHEDULE 1/S6.03 FOR DECK INFORMATION.
11. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
12. EL. XXX'-XX" INDICATES BOTTOM OF DECK ELEVATION.
13. INDICATES MOMENT CONNECTION. REF. 2/S6.02 AND 3/S6.02 FOR DETAILS.
14. INDICATES SFRS COLLECTOR CONNECTION. REF. X/S6.0X FOR DETAILS.
15. INDICATES DIAGONAL BRACING AT WF BEAM. REF. 1/S6.05 AND 2/S6.05.
16. X INDICATES BEAM PENETRATION. REF. SCHEDULE 7/S6.02.
17. REF. SHEET S6.04 FOR TYPICAL DECK REINFORCING AT OPENINGS.
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19. (B) INDICATES BELOW.
20. INDICATES COLUMN BELOW.
21. INDICATES OSHA TIE OFF. REF. ***SS013.09 - SS013.11*** FOR CONNECTION DETAILS.
22. XXX INDICATES MEMBER PART OF SEISMIC FORCE RESISTING SYSTEM (SFRS). REF. GENERAL STRUCTURAL NOTES, SPECIFICATIONS, AND DETAILS FOR REQUIREMENTS.

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project #	17007

FRAMING PLAN LEVEL 2 - SECTOR B

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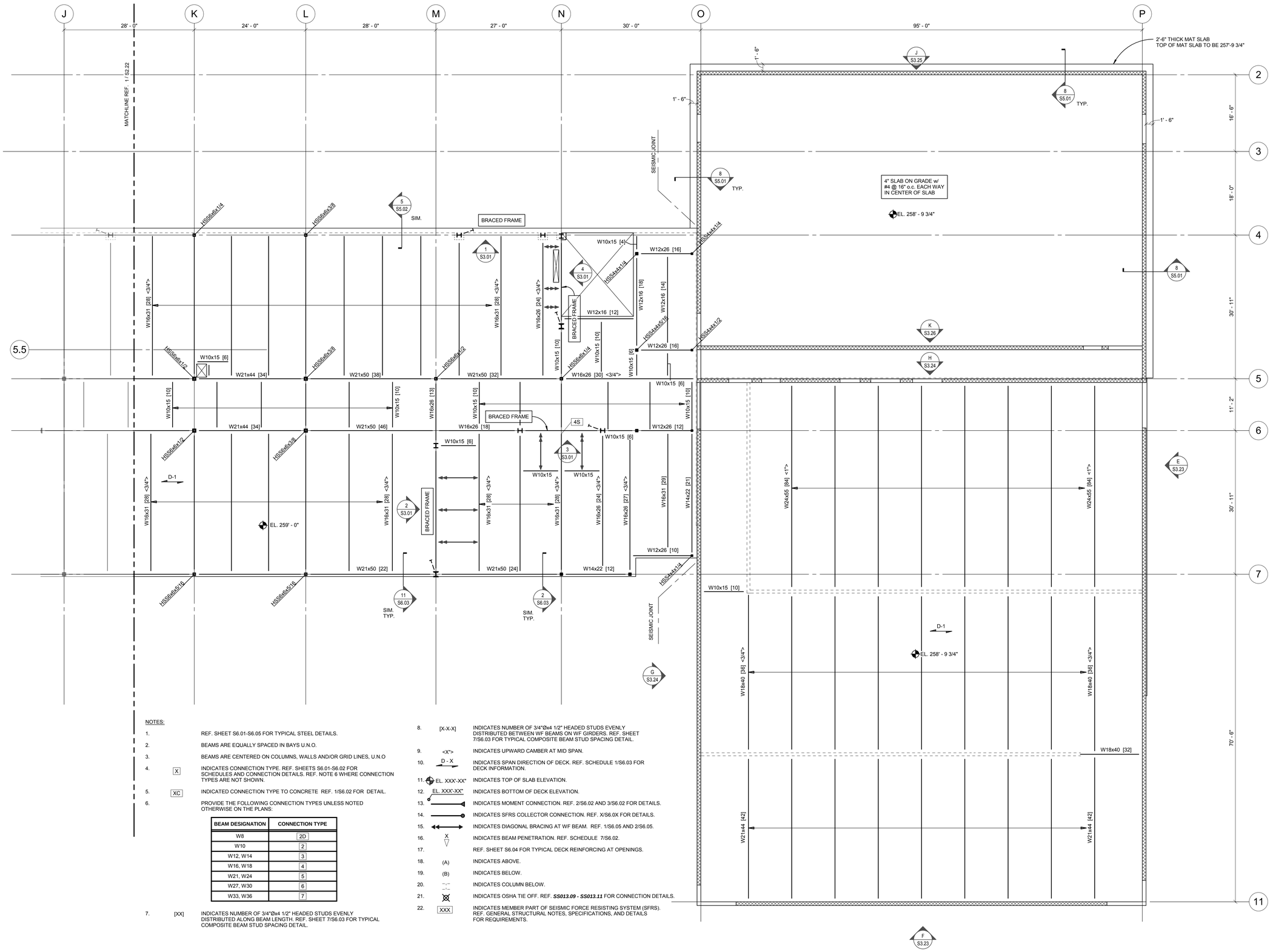

NOTES:

1. REF. SHEET S6.01-S6.05 FOR TYPICAL STEEL DETAILS.
2. BEAMS ARE EQUALLY SPACED IN BAYS U.N.O.
3. BEAMS ARE CENTERED ON COLUMNS, WALLS AND/OR GRID LINES, U.N.O
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5. [XC] INDICATED CONNECTION TYPE TO CONCRETE REF. 1/S6.02 FOR DETAIL.
6. PROVIDE THE FOLLOWING CONNECTION TYPES UNLESS NOTED OTHERWISE ON THE PLANS:

BEAM DESIGNATION	CONNECTION TYPE
W8	2D
W10	2
W12, W14	3
W16, W18	4
W21, W24	5
W27, W30	6
W33, W36	7

7. [XX] INDICATES NUMBER OF 3/4"Ø x4 1/2" HEADED STUDS EVENLY DISTRIBUTED ALONG BEAM LENGTH. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
8. [X-X-X] INDICATES NUMBER OF 3/4"Ø x4 1/2" HEADED STUDS EVENLY DISTRIBUTED BETWEEN WF BEAMS ON WF GIRDERS. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
9. <X"> INDICATES UPWARD CAMBER AT MID SPAN.
10. D - X INDICATES SPAN DIRECTION OF DECK. REF. SCHEDULE 1/S6.03 FOR DECK INFORMATION.
11. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
12. EL. XXX'-XX" INDICATES BOTTOM OF DECK ELEVATION.
13. INDICATES MOMENT CONNECTION. REF. 2/S6.02 AND 3/S6.02 FOR DETAILS.
14. INDICATES SFRS COLLECTOR CONNECTION. REF. X/S6.0X FOR DETAILS.
15. INDICATES DIAGONAL BRACING AT WF BEAM. REF. 1/S6.05 AND 2/S6.05.
16. X INDICATES BEAM PENETRATION. REF. SCHEDULE 7/S6.02.
17. REF. SHEET S6.04 FOR TYPICAL DECK REINFORCING AT OPENINGS.
18. (A) INDICATES ABOVE.
19. (B) INDICATES BELOW.
20. INDICATES COLUMN BELOW.
21. INDICATES OSHA TIE OFF. REF. ***SS013.09 - SS013.11*** FOR CONNECTION DETAILS.
22. XXX INDICATES MEMBER PART OF SEISMIC FORCE RESISTING SYSTEM (SFRS). REF. GENERAL STRUCTURAL NOTES, SPECIFICATIONS, AND DETAILS FOR REQUIREMENTS.

1 FRAMING PLAN LEVEL 2 - SECTOR C
1/8" = 1'-0"

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project #	17007

FRAMING PLAN LEVEL 2 - SECTOR C

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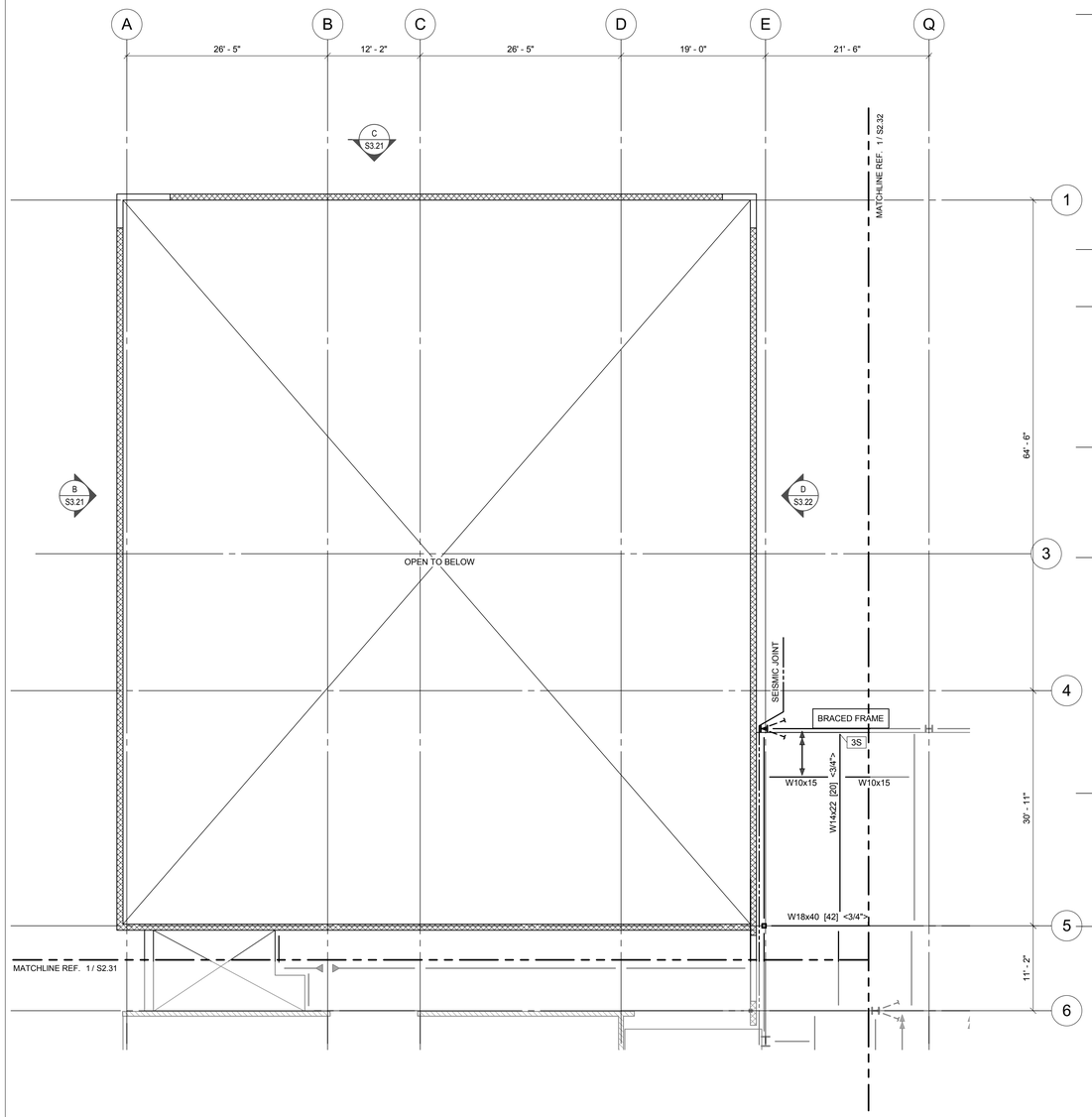
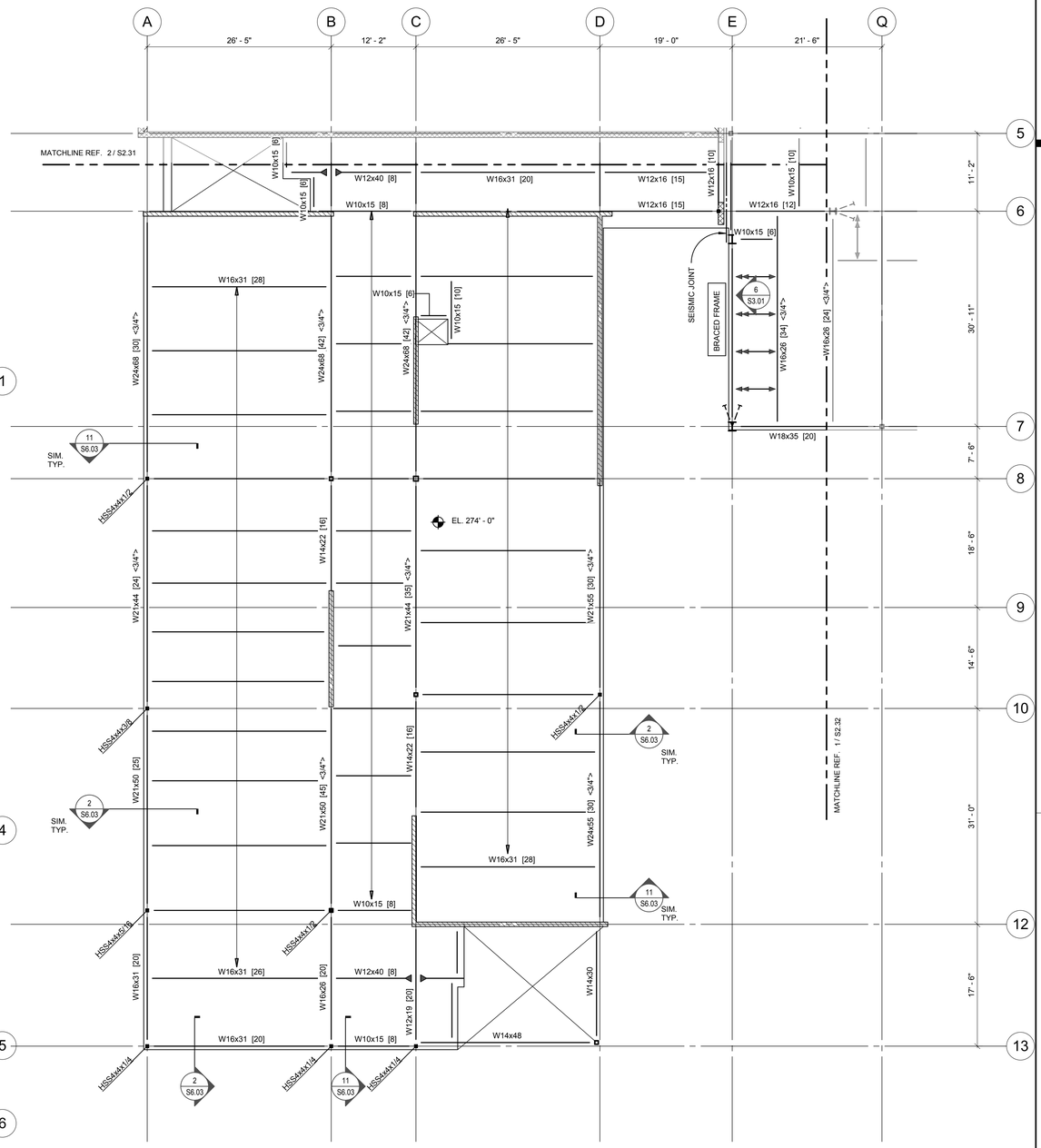


2 FRAMING PLAN LEVEL 3 - SECTOR A2
1/8" = 1'-0"



1 FRAMING PLAN LEVEL 3 - SECTOR A1
1/8" = 1'-0"

NOTES:

1. REF. SHEET S6.01-S6.05 FOR TYPICAL STEEL DETAILS.
2. BEAMS ARE EQUALLY SPACED IN BAYS U.N.O.
3. BEAMS ARE CENTERED ON COLUMNS, WALLS AND/OR GRID LINES, U.N.O
4. [X] INDICATES CONNECTION TYPE. REF. SHEETS S6.01-S6.02 FOR SCHEDULES AND CONNECTION DETAILS. REF. NOTE 6 WHERE CONNECTION TYPES ARE NOT SHOWN.
5. [XC] INDICATED CONNECTION TYPE TO CONCRETE REF. 1/S6.02 FOR DETAIL.
6. PROVIDE THE FOLLOWING CONNECTION TYPES UNLESS NOTED OTHERWISE ON THE PLANS:

BEAM DESIGNATION	CONNECTION TYPE
W8	2D
W10	2
W12, W14	3
W16, W18	4
W21, W24	5
W27, W30	6
W33, W36	7

7. [XX] INDICATES NUMBER OF 3/4"Ø x4 1/2" HEADED STUDS EVENLY DISTRIBUTED ALONG BEAM LENGTH. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
8. [X-X-X] INDICATES NUMBER OF 3/4"Ø x4 1/2" HEADED STUDS EVENLY DISTRIBUTED BETWEEN WF BEAMS ON WF GIRDERS. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
9. <X"> INDICATES UPWARD CAMBER AT MID SPAN.
10. D - X INDICATES SPAN DIRECTION OF DECK. REF. SCHEDULE 1/S6.03 FOR DECK INFORMATION.
11. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
12. EL. XXX'-XX" INDICATES BOTTOM OF DECK ELEVATION.
13. INDICATES MOMENT CONNECTION. REF. 2/S6.02 AND 3/S6.02 FOR DETAILS.
14. INDICATES SFRS COLLECTOR CONNECTION. REF. X/S6.0X FOR DETAILS.
15. INDICATES DIAGONAL BRACING AT WF BEAM. REF. 1/S6.05 AND 2/S6.05.
16. X INDICATES BEAM PENETRATION. REF. SCHEDULE 7/S6.02.
17. REF. SHEET S6.04 FOR TYPICAL DECK REINFORCING AT OPENINGS.
18. (A) INDICATES ABOVE.
19. (B) INDICATES BELOW.
20. INDICATES COLUMN BELOW.
21. INDICATES OSHA TIE OFF. REF. ***SS013.09 - SS013.11*** FOR CONNECTION DETAILS.
22. XXX INDICATES MEMBER PART OF SEISMIC FORCE RESISTING SYSTEM (SFRS). REF. GENERAL STRUCTURAL NOTES, SPECIFICATIONS, AND DETAILS FOR REQUIREMENTS.

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project #	17007

FRAMING PLAN LEVEL 3 - SECTOR A

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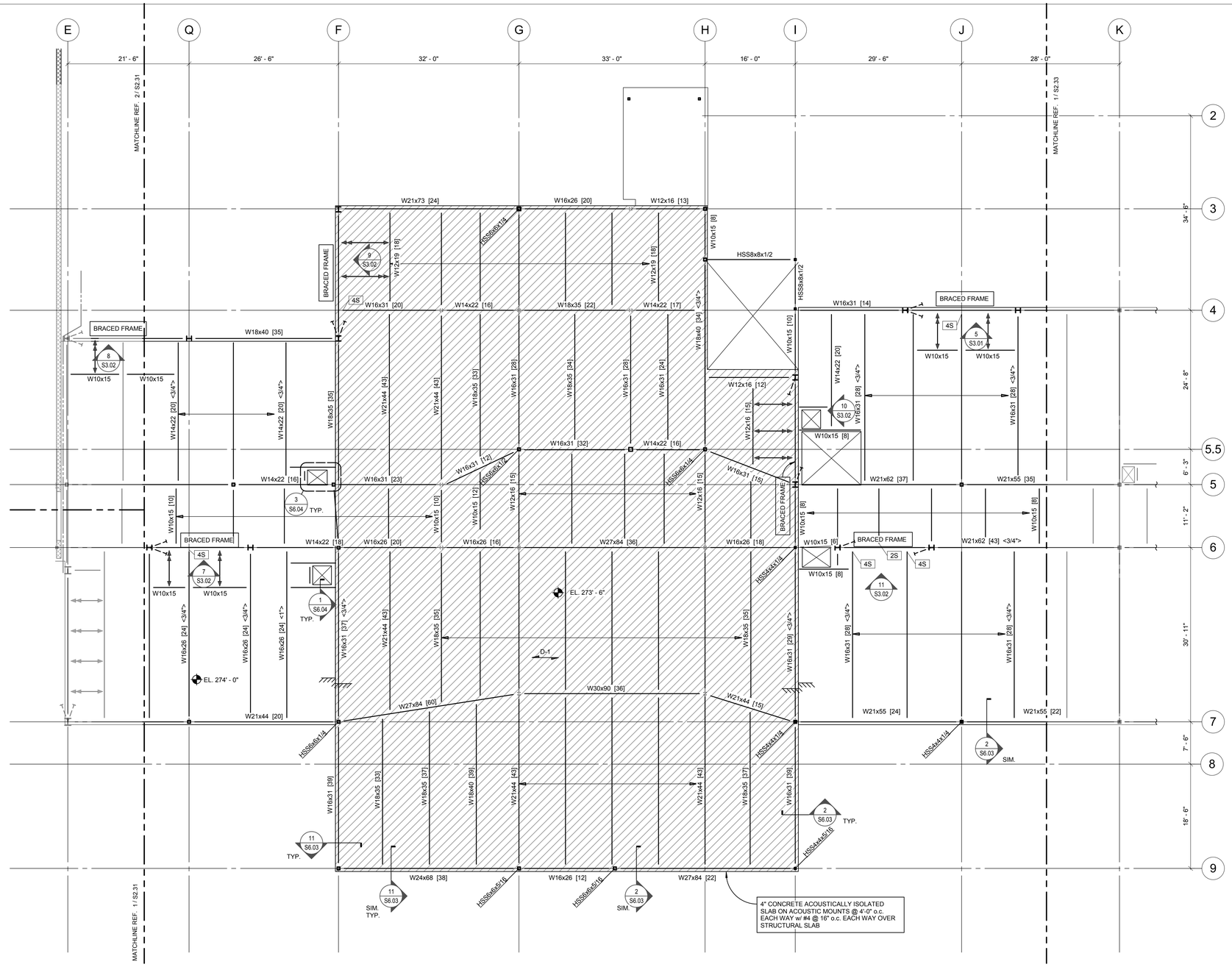

1 FRAMING PLAN LEVEL 3 - SECTOR B

1/8" = 1'-0"

NOTES:

1. REF. SHEET S6.01-S6.05 FOR TYPICAL STEEL DETAILS.
2. BEAMS ARE EQUALLY SPACED IN BAYS U.N.O.
3. BEAMS ARE CENTERED ON COLUMNS, WALLS AND/OR GRID LINES, U.N.O
4. [X] INDICATES CONNECTION TYPE. REF. SHEETS S6.01-S6.02 FOR SCHEDULES AND CONNECTION DETAILS. REF. NOTE 6 WHERE CONNECTION TYPES ARE NOT SHOWN.
5. [XC] INDICATED CONNECTION TYPE TO CONCRETE REF. 1/S6.02 FOR DETAIL.
6. PROVIDE THE FOLLOWING CONNECTION TYPES UNLESS NOTED OTHERWISE ON THE PLANS:

BEAM DESIGNATION	CONNECTION TYPE
W8	2D
W10	2
W12, W14	3
W16, W18	4
W21, W24	5
W27, W30	6
W33, W36	7

7. [XX] INDICATES NUMBER OF 3/4"Øx4 1/2" HEADED STUDS EVENLY DISTRIBUTED ALONG BEAM LENGTH. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
8. [X-X-X] INDICATES NUMBER OF 3/4"Øx4 1/2" HEADED STUDS EVENLY DISTRIBUTED BETWEEN WF BEAMS ON WF GIRDERS. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
9. <X"> INDICATES UPWARD CAMBER AT MID SPAN.
10. D - X INDICATES SPAN DIRECTION OF DECK. REF. SCHEDULE 1/S6.03 FOR DECK INFORMATION.
11. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
12. EL. XXX'-XX" INDICATES BOTTOM OF DECK ELEVATION.
13. INDICATES MOMENT CONNECTION. REF. 2/S6.02 AND 3/S6.02 FOR DETAILS.
14. INDICATES SFRS COLLECTOR CONNECTION. REF. X/S6.0X FOR DETAILS.
15. INDICATES DIAGONAL BRACING AT WF BEAM. REF. 1/S6.05 AND 2/S6.05.
16. X INDICATES BEAM PENETRATION. REF. SCHEDULE 7/S6.02.
17. REF. SHEET S6.04 FOR TYPICAL DECK REINFORCING AT OPENINGS.
18. (A) INDICATES ABOVE.
19. (B) INDICATES BELOW.
20. INDICATES COLUMN BELOW.
21. INDICATES OSHA TIE OFF. REF. ***SS013.09 - SS013.11*** FOR CONNECTION DETAILS.
22. XXX INDICATES MEMBER PART OF SEISMIC FORCE RESISTING SYSTEM (SFRS). REF. GENERAL STRUCTURAL NOTES, SPECIFICATIONS, AND DETAILS FOR REQUIREMENTS.

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FRAMING PLAN LEVEL 3 - SECTOR B

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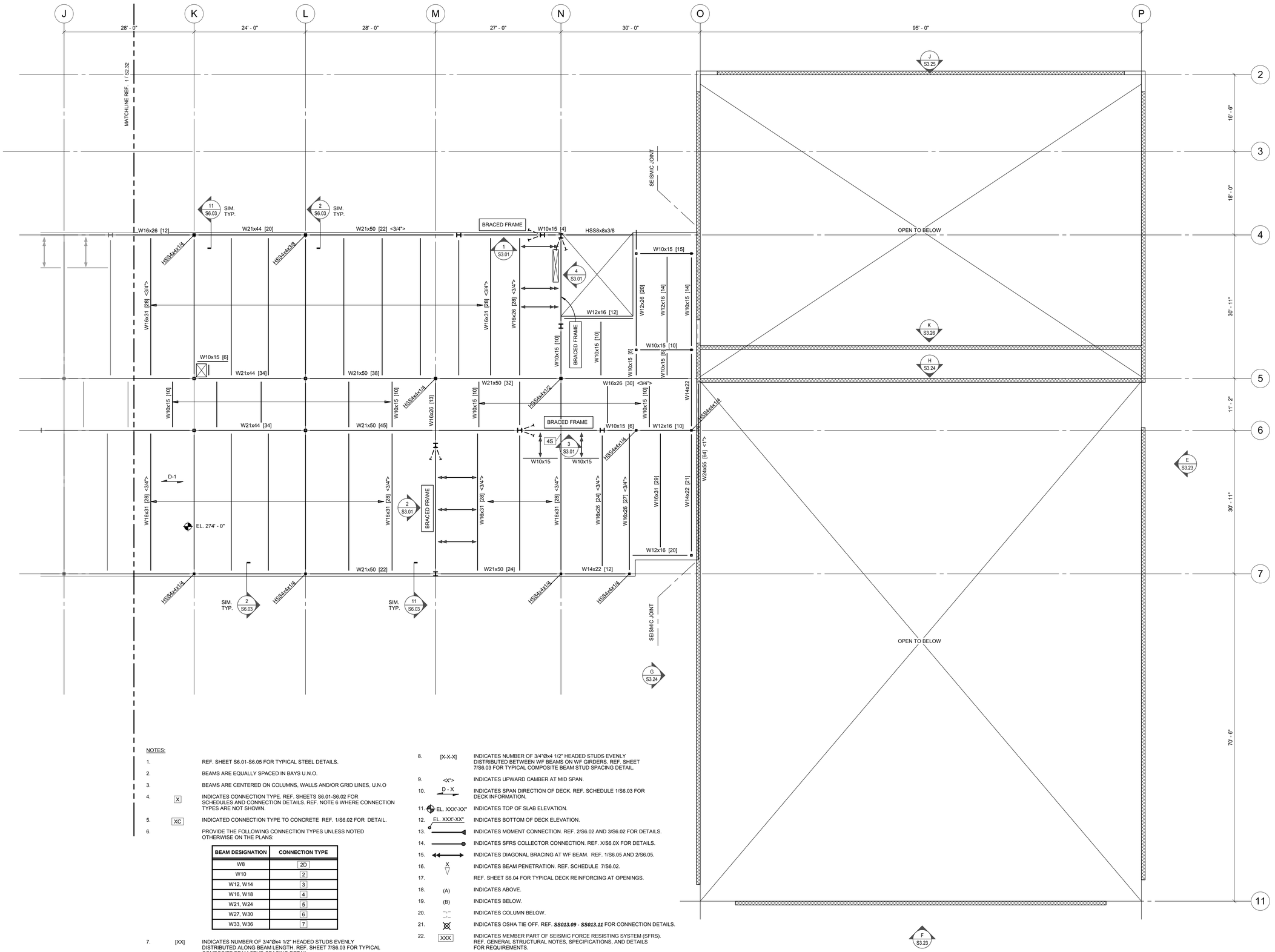

NOTES:

1. REF. SHEET S6.01-S6.05 FOR TYPICAL STEEL DETAILS.
2. BEAMS ARE EQUALLY SPACED IN BAYS U.N.O.
3. BEAMS ARE CENTERED ON COLUMNS, WALLS AND/OR GRID LINES, U.N.O
4. [X] INDICATES CONNECTION TYPE. REF. SHEETS S6.01-S6.02 FOR SCHEDULES AND CONNECTION DETAILS. REF. NOTE 6 WHERE CONNECTION TYPES ARE NOT SHOWN.
5. [XC] INDICATED CONNECTION TYPE TO CONCRETE REF. 1/S6.02 FOR DETAIL.
6. PROVIDE THE FOLLOWING CONNECTION TYPES UNLESS NOTED OTHERWISE ON THE PLANS:

BEAM DESIGNATION	CONNECTION TYPE
W8	2D
W10	2
W12, W14	3
W16, W18	4
W21, W24	5
W27, W30	6
W33, W36	7

7. [XX] INDICATES NUMBER OF 3/4"Øx4 1/2" HEADED STUDS EVENLY DISTRIBUTED ALONG BEAM LENGTH. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
8. [X-X-X] INDICATES NUMBER OF 3/4"Øx4 1/2" HEADED STUDS EVENLY DISTRIBUTED BETWEEN WF BEAMS ON WF GIRDERS. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
9. <X"> INDICATES UPWARD CAMBER AT MID SPAN.
10. D - X INDICATES SPAN DIRECTION OF DECK. REF. SCHEDULE 1/S6.03 FOR DECK INFORMATION.
11. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
12. EL. XXX'-XX" INDICATES BOTTOM OF DECK ELEVATION.
13. INDICATES MOMENT CONNECTION. REF. 2/S6.02 AND 3/S6.02 FOR DETAILS.
14. INDICATES SFRS COLLECTOR CONNECTION. REF. X/S6.0X FOR DETAILS.
15. INDICATES DIAGONAL BRACING AT WF BEAM. REF. 1/S6.05 AND 2/S6.05.
16. X INDICATES BEAM PENETRATION. REF. SCHEDULE 7/S6.02.
17. REF. SHEET S6.04 FOR TYPICAL DECK REINFORCING AT OPENINGS.
18. (A) INDICATES ABOVE.
19. (B) INDICATES BELOW.
20. INDICATES COLUMN BELOW.
21. INDICATES OSHA TIE OFF. REF. ***SS013.09 - SS013.11*** FOR CONNECTION DETAILS.
22. XXX INDICATES MEMBER PART OF SEISMIC FORCE RESISTING SYSTEM (SFRS). REF. GENERAL STRUCTURAL NOTES, SPECIFICATIONS, AND DETAILS FOR REQUIREMENTS.

1 FRAMING PLAN LEVEL 3 - SECTOR C
1/8" = 1'-0"

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FRAMING PLAN LEVEL 3 - SECTOR C

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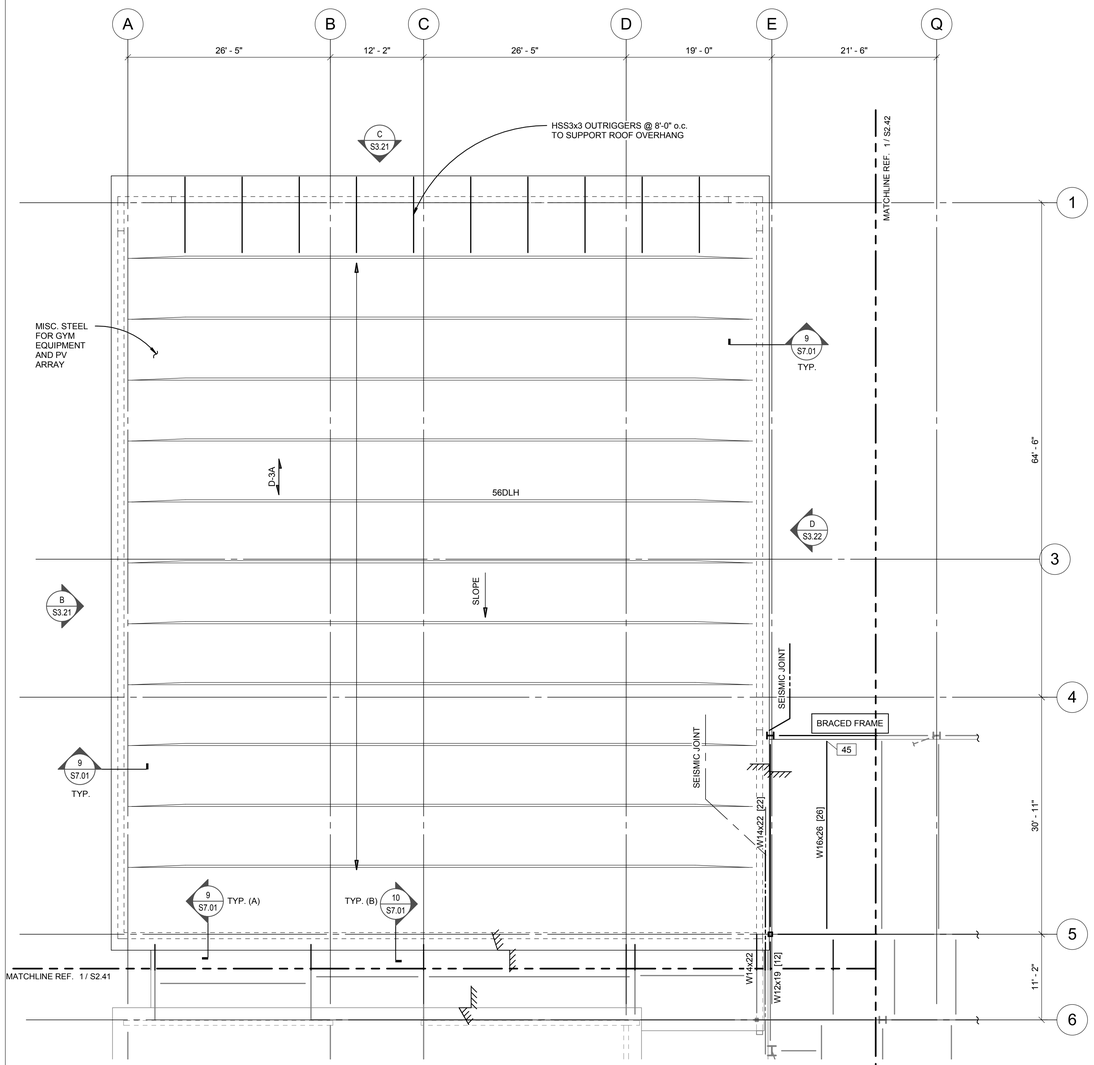
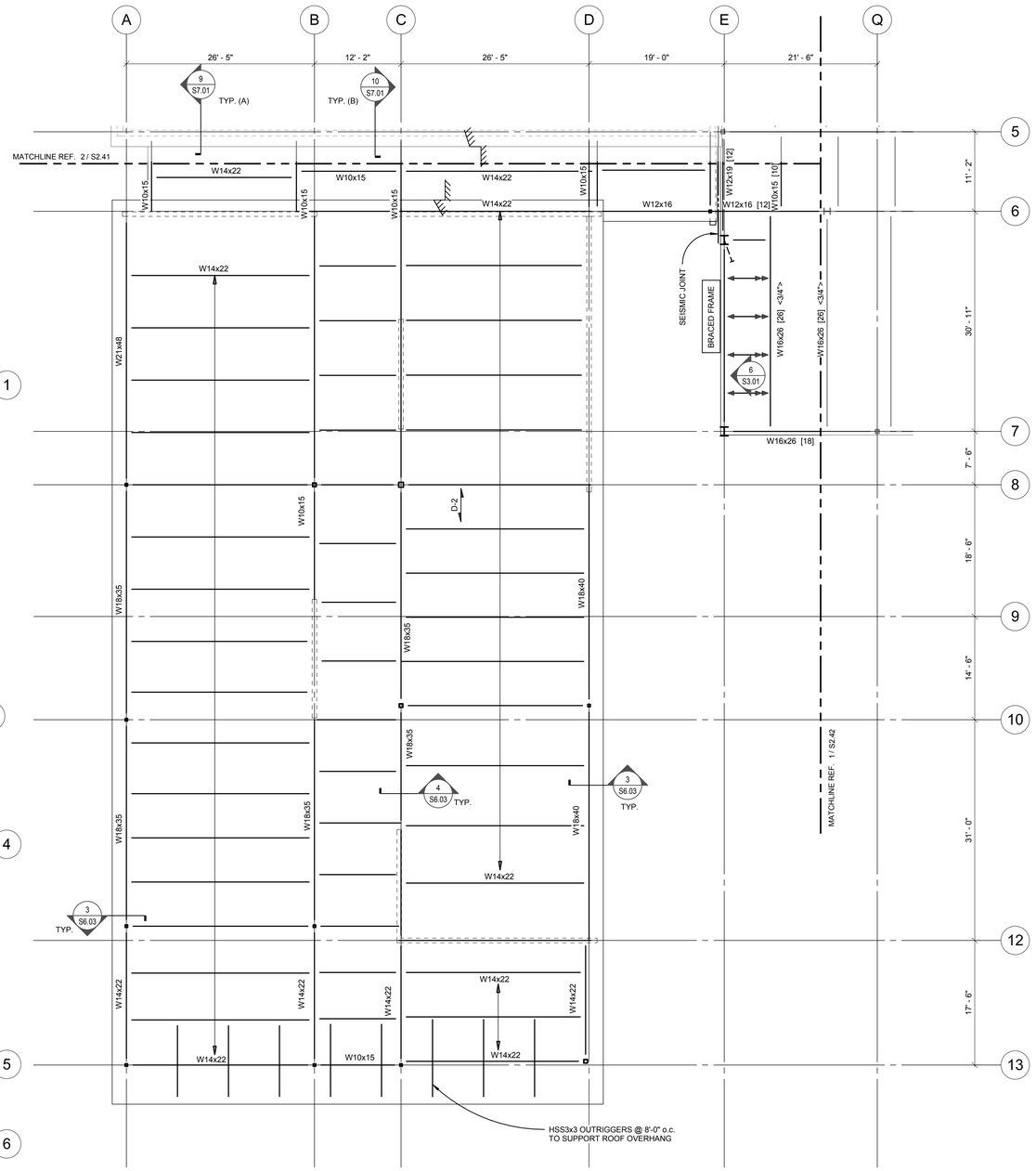


2 FRAMING PLAN ROOF - SECTOR A2

1/8" = 1'-0"



1 FRAMING PLAN ROOF - SECTOR A1

1/8" = 1'-0"

NOTES:

1. REF. SHEET S6.01-S6.05 FOR TYPICAL STEEL DETAILS.
2. BEAMS ARE EQUALLY SPACED IN BAYS U.N.O.
3. BEAMS ARE CENTERED ON COLUMNS, WALLS AND/OR GRID LINES, U.N.O
4. [X] INDICATES CONNECTION TYPE. REF. SHEETS S6.01-S6.02 FOR SCHEDULES AND CONNECTION DETAILS. REF. NOTE 6 WHERE CONNECTION TYPES ARE NOT SHOWN.
5. [XC] INDICATED CONNECTION TYPE TO CONCRETE REF. 1/S6.02 FOR DETAIL.
6. PROVIDE THE FOLLOWING CONNECTION TYPES UNLESS NOTED OTHERWISE ON THE PLANS:

BEAM DESIGNATION	CONNECTION TYPE
W8	2D
W10	2
W12, W14	3
W16, W18	4
W21, W24	5
W27, W30	6
W33, W36	7

7. [XX] INDICATES NUMBER OF 3/4"Ø x4 1/2" HEADED STUDS EVENLY DISTRIBUTED ALONG BEAM LENGTH. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
8. [X-X-X] INDICATES NUMBER OF 3/4"Ø x4 1/2" HEADED STUDS EVENLY DISTRIBUTED BETWEEN WF BEAMS ON WF GIRDERS. REF. SHEET 7/S6.03 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
9. <X"> INDICATES UPWARD CAMBER AT MID SPAN.
10. D - X INDICATES SPAN DIRECTION OF DECK. REF. SCHEDULE 1/S6.03 FOR DECK INFORMATION.
11. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
12. EL. XXX'-XX" INDICATES BOTTOM OF DECK ELEVATION.
13. INDICATES MOMENT CONNECTION. REF. 2/S6.02 AND 3/S6.02 FOR DETAILS.
14. INDICATES SFRS COLLECTOR CONNECTION. REF. X/S6.0X FOR DETAILS.
15. INDICATES DIAGONAL BRACING AT WF BEAM. REF. 1/S6.05 AND 2/S6.05.
16. X INDICATES BEAM PENETRATION. REF. SCHEDULE 7/S6.02.
17. REF. SHEET S6.04 FOR TYPICAL DECK REINFORCING AT OPENINGS.
18. (A) INDICATES ABOVE.
19. (B) INDICATES BELOW.
20. INDICATES COLUMN BELOW.
21. INDICATES OSHA TIE OFF. REF. ***SS013.09 - SS013.11*** FOR CONNECTION DETAILS.
22. XXX INDICATES MEMBER PART OF SEISMIC FORCE RESISTING SYSTEM (SFRS). REF. GENERAL STRUCTURAL NOTES, SPECIFICATIONS, AND DETAILS FOR REQUIREMENTS.

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FRAMING PLAN ROOF - SECTOR A

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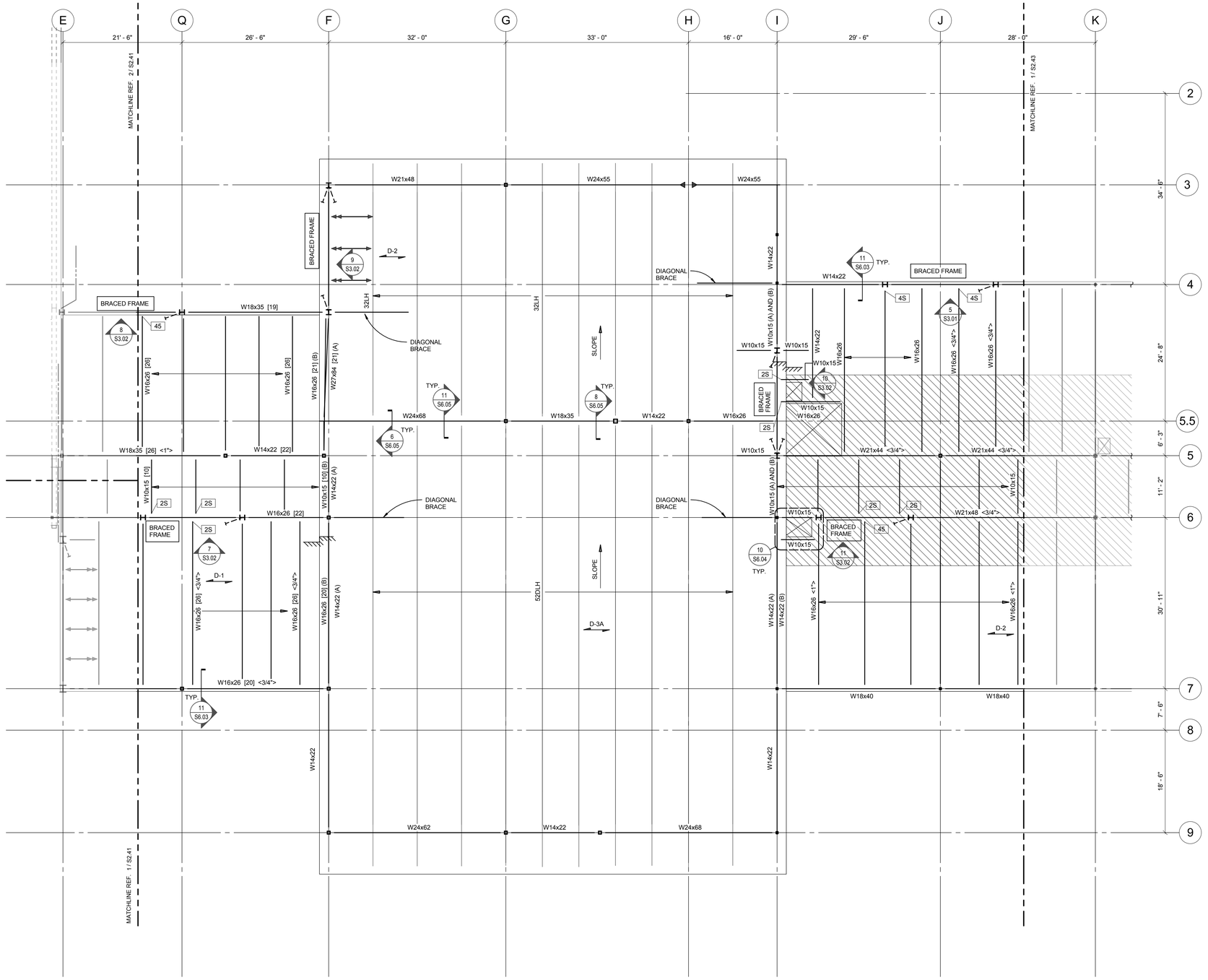

1 FRAMING PLAN ROOF - SECTOR B

1/8" = 1'-0"

NOTES:

1. REF. SHEET S6.01-S6.05 FOR TYPICAL STEEL DETAILS.
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3. BEAMS ARE CENTERED ON COLUMNS, WALLS AND/OR GRID LINES, U.N.O
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W10	2
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W16, W18	4
W21, W24	5
W27, W30	6
W33, W36	7

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9. <X"> INDICATES UPWARD CAMBER AT MID SPAN.
10. D - X INDICATES SPAN DIRECTION OF DECK. REF. SCHEDULE 1/S6.03 FOR DECK INFORMATION.
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13. INDICATES MOMENT CONNECTION. REF. 2/S6.02 AND 3/S6.02 FOR DETAILS.
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FRAMING PLAN ROOF - SECTOR B

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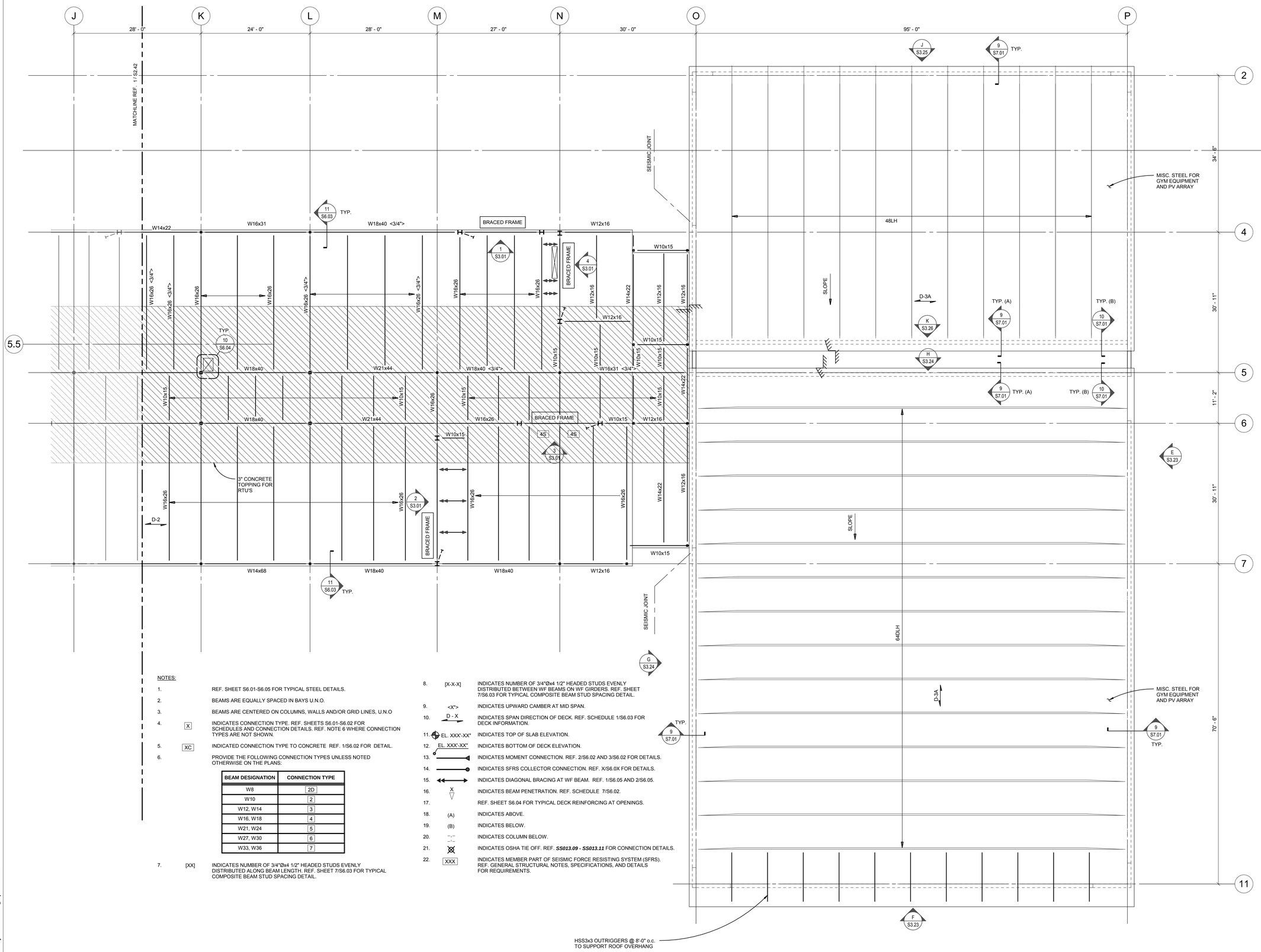

NOTES:

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2. BEAMS ARE EQUALLY SPACED IN BAYS U.N.O.
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14. INDICATES SFRS COLLECTOR CONNECTION. REF. X/S6.0X FOR DETAILS.
15. INDICATES DIAGONAL BRACING AT WF BEAM. REF. 1/S6.05 AND 2/S6.05.
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1 FRAMING PLAN ROOF - SECTOR C
1/8" = 1'-0"

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FRAMING PLAN ROOF - SECTOR C

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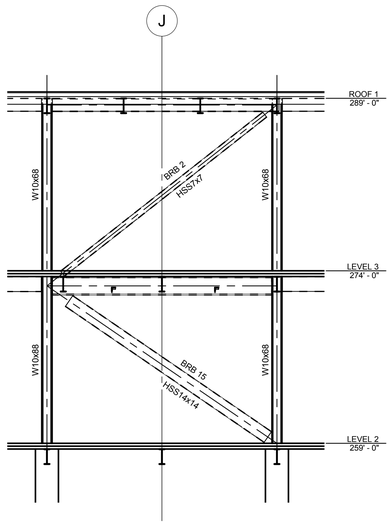
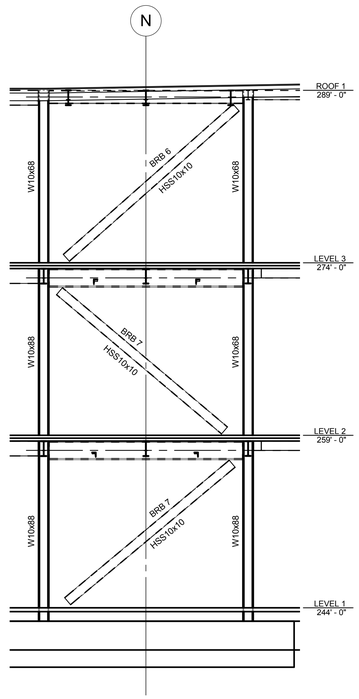
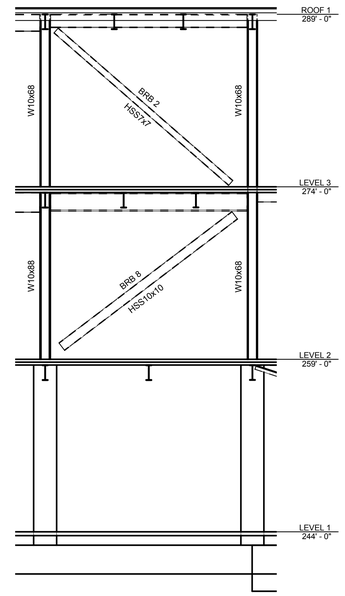


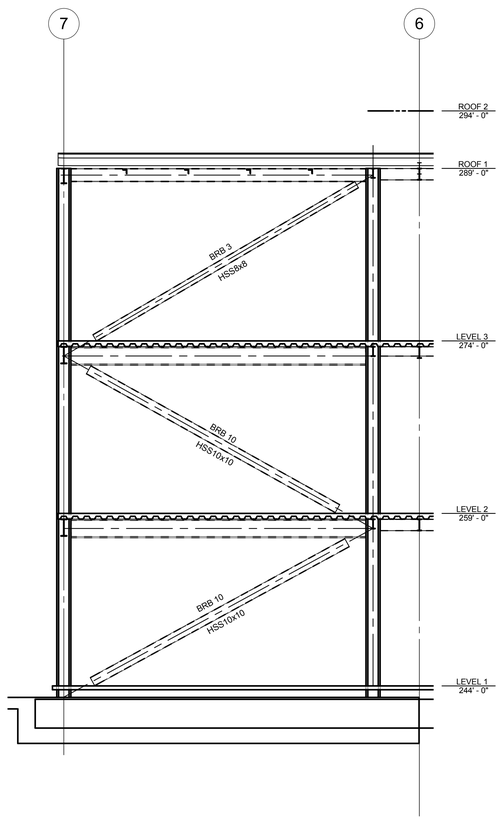
5 BRACED FRAME ELEVATION ALONG GRID 4
3/16" = 1'-0"



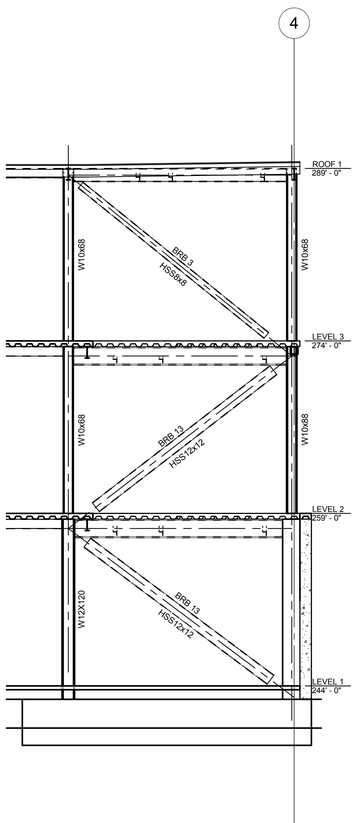
3 BRACED FRAME ELEVATION ALONG GRID 6
3/16" = 1'-0"



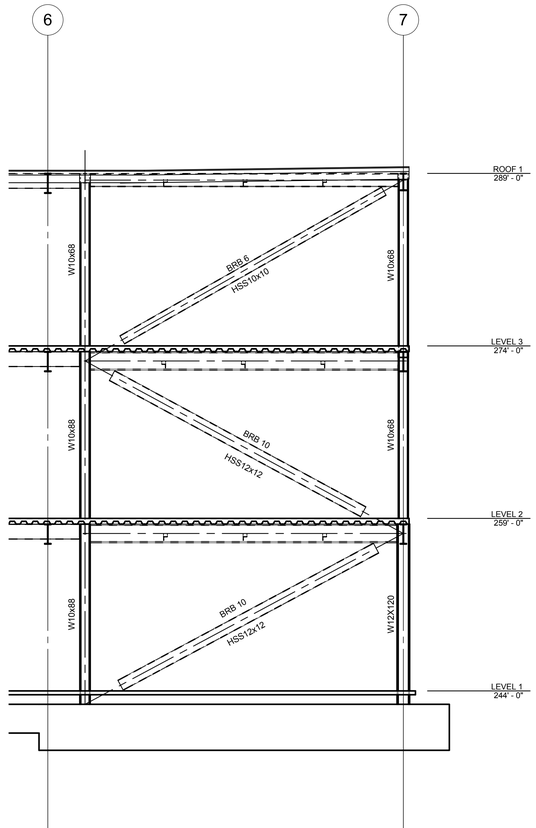
1 BRACED FRAME ELEVATION
3/16" = 1'-0"



6 BRACED FRAME ELEVATION ALONG GRID E
3/16" = 1'-0"



4 BRACED FRAME ELEVATION ALONG GRID N
3/16" = 1'-0"



2 BRACED FRAME ELEVATION ALONG GRID M
3/16" = 1'-0"

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BRACED FRAME ELEVATIONS SECTOR C

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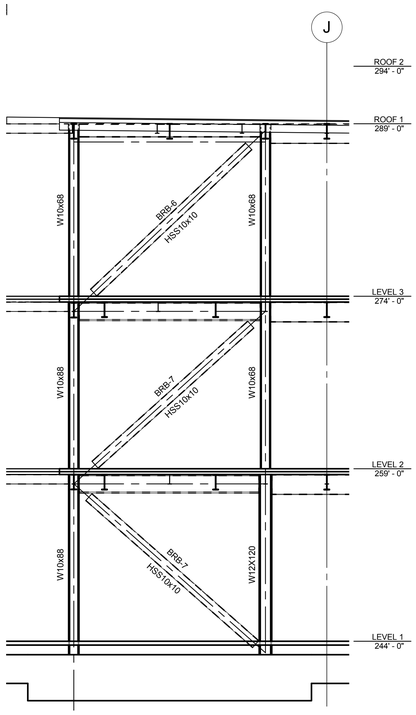
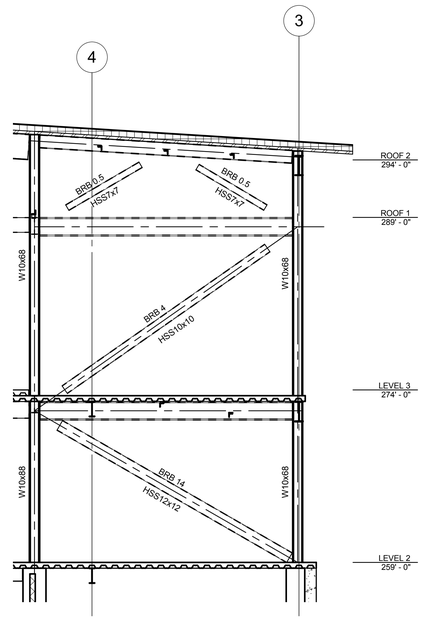
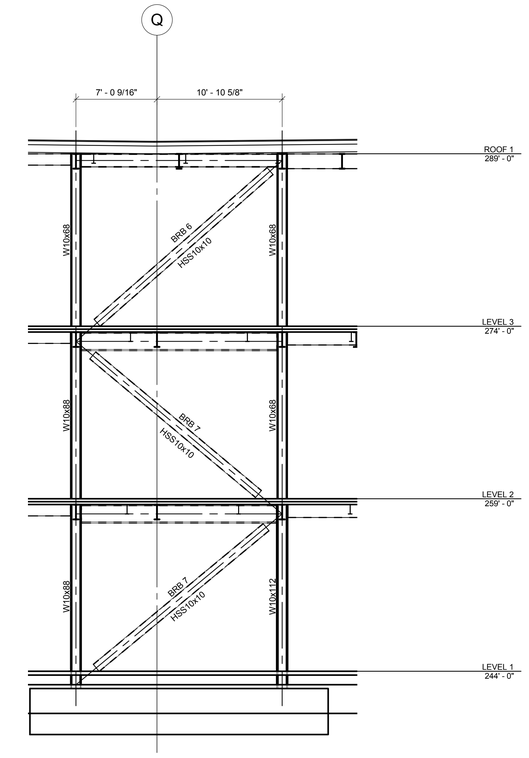


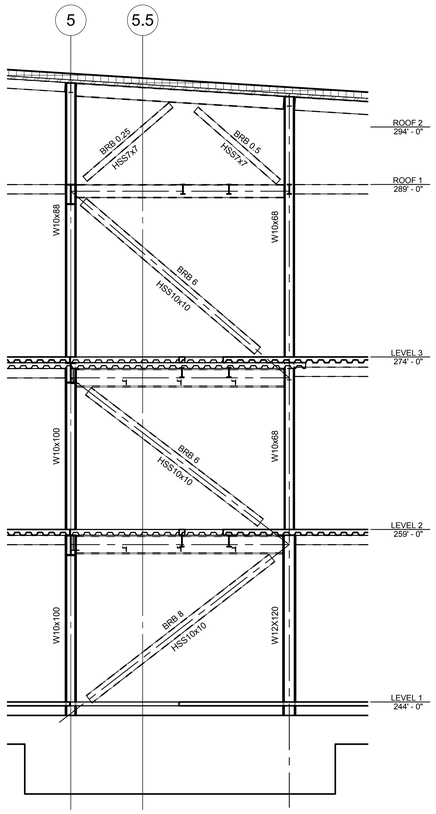
11 BRACED FRAME ELEVATION ALONG GRID 6
3/16" = 1'-0"



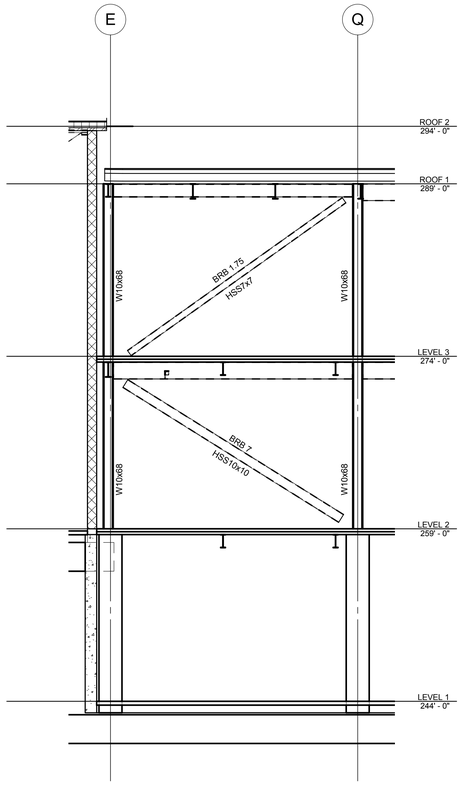
9 BRACED FRAME ELEVATION ALONG GRID F
3/16" = 1'-0"



7 BRACED FRAME ELEVATION ALONG GRID 6
3/16" = 1'-0"



10 BRACED FRAME ELEVATION ALONG GRID I
3/16" = 1'-0"



8 BRACED FRAME ELEVATION
3/16" = 1'-0"

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BRACED FRAME ELEVATIONS SECTOR B

S3.02

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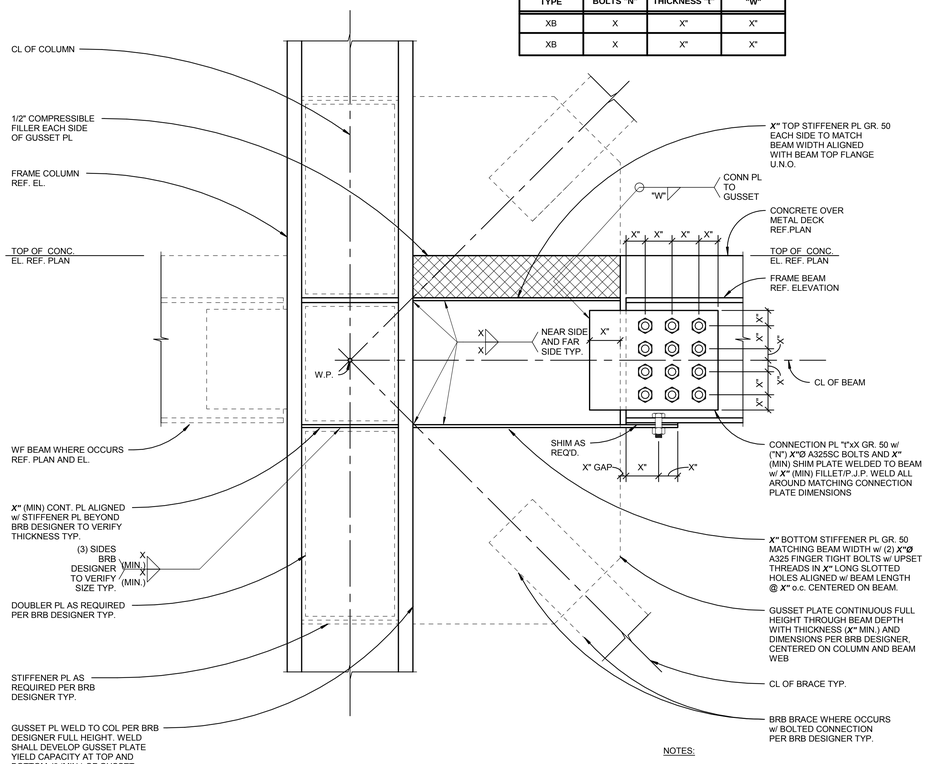
BOLTED BEAM CONNECTION SCHEDULE			
CONN. TYPE	QUANTITY OF BOLTS "N"	CONN. PL THICKNESS "t"	WELD SIZE "W"
XB	X	X"	X"
XB	X	X"	X"



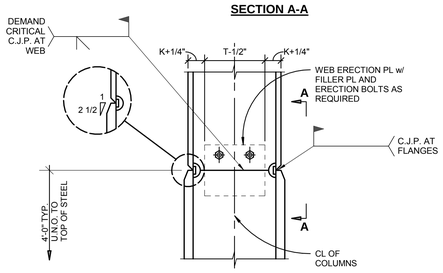
NOTES:

1. PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY.
2. REF. 11/S3.11 FOR DOUBLER PLATES.
3. REF. 12/S3.11 FOR CONTINUITY AND STIFFENER PLATES.
4. REF. 9/S3.10 FOR WELD ACCESS HOLES.
5. REF. 5/S3.10 FOR BEAM SHEAR PL.

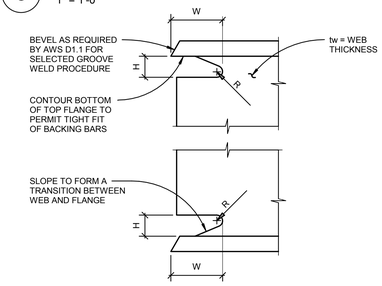
6 BRB JOINT CONNECTION
1 1/2" = 1'-0"



SECTION A-A



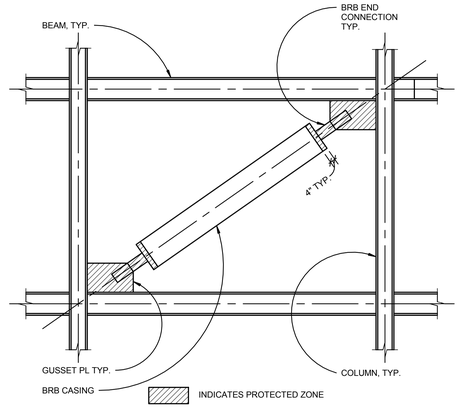
8 SFRS COLUMN SPLICE
1" = 1'-0"



W = GREATER OF 1.5tw OR 1 1/2" (TOLERANCE = +/- 1/4")
H = GREATER OF 1.5tw OR 1" BUT NOT GREATER THAN 2".
R = 3/8" RADIUS MINIMUM

NOTE:
REF. SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH DEMAND CRITICAL WELDS.

9 WELD ACCESS HOLE
1" = 1'-0"

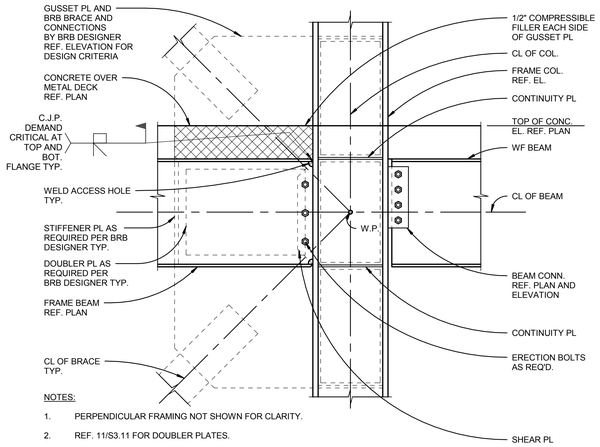


PROTECTED ZONE REQUIREMENTS

(1) WITHIN THE PROTECTED ZONE, DISCONTINUITIES CREATED BY FABRICATION OR ERECTION OPERATIONS, SUCH AS TACK WELDS, ERECTION AIDS, AIR-ARC GOUGING AND THERMAL CUTTING SHALL BE REPAIRED AS REQUIRED BY ENGINEER OF RECORD.

(2) WELDED, BOLTED, SCREWED OR SHOT-IN ATTACHMENTS FOR PERIMETER EDGE ANGLES, EXTERIOR FACADES, PARTITIONS, DUCK WORK, PIPING OR OTHER CONSTRUCTION SHALL NOT BE PLACED WITHIN THE PROTECTED ZONE.

7 PROTECTED ZONE REQ'MTS AT BUCKLING RESTRAINED BRACED FRAMES
1/4" = 1'-0"

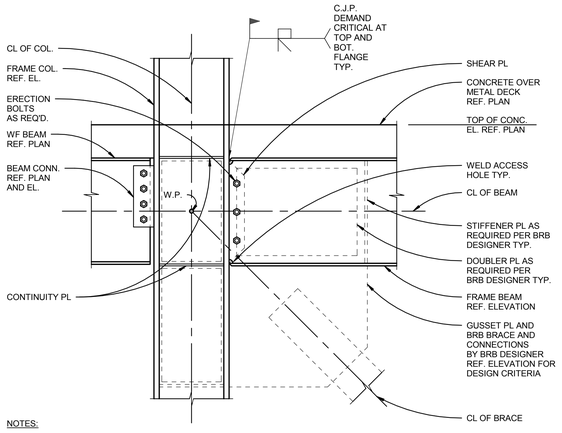


NOTES:

1. PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY.
2. REF. 11/S3.11 FOR DOUBLER PLATES.
3. REF. 12/S3.11 FOR CONTINUITY AND STIFFENER PLATES.
4. REF. 9/S3.10 FOR WELD ACCESS HOLES.
5. REF. 5/S3.10 FOR BEAM SHEAR PL.

3 BRBF JOINT CONNECTION
1" = 1'-0"

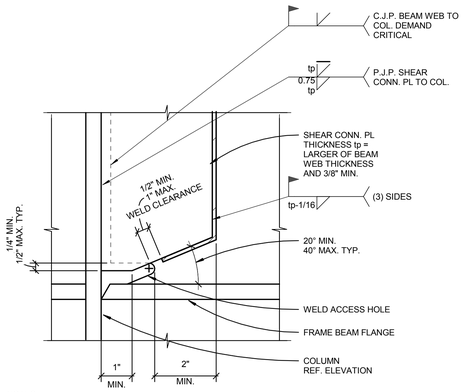
ALL MEMBERS AND CONNECTIONS ON THIS SHEET ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS). REFERENCE GENERAL STRUCTURAL NOTES, QUALITY ASSURANCE PLAN, AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



NOTES:

1. PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY.
2. REF. 11/S3.11 FOR DOUBLER PLATES.
3. REF. 12/S3.11 FOR CONTINUITY AND STIFFENER PLATES.
4. REF. 9/S3.10 FOR WELD ACCESS HOLES.
5. REF. 5/S3.10 FOR BEAM SHEAR PL.

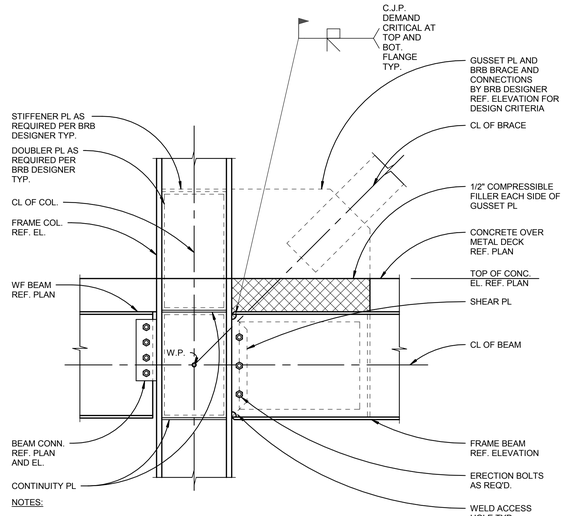
4 BRBF JOINT CONNECTION
1" = 1'-0"



NOTES:

1. CONNECT TO PLATE IN LIEU OF COLUMN FLANGE WHERE FRAME BEAM FRAMES INTO COLUMN WEB (SIM. CONDITION).
2. FOR WELD ACCESS HOLE REF. 9/S3.10.
3. ERECTION BOLTS NOT SHOWN FOR CLARITY.

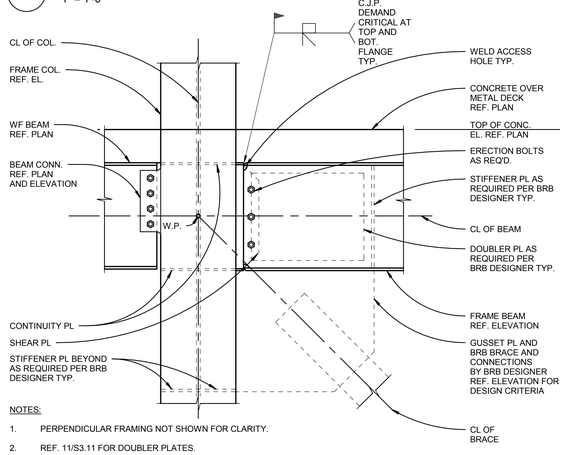
5 BRBF FRAME BEAM SHEAR PLATE
6" = 1'-0"



NOTES:

1. PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY.
2. REF. 11/S3.11 FOR DOUBLER PLATES.
3. REF. 12/S3.11 FOR CONTINUITY AND STIFFENER PLATES.
4. REF. 9/S3.10 FOR WELD ACCESS HOLES.
5. REF. 5/S3.10 FOR BEAM SHEAR PL.

1 BRBF JOINT CONNECTION
1" = 1'-0"



NOTES:

1. PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY.
2. REF. 11/S3.11 FOR DOUBLER PLATES.
3. REF. 12/S3.11 FOR CONTINUITY AND STIFFENER PLATES.
4. REF. 9/S3.10 FOR WELD ACCESS HOLES.
5. REF. 5/S3.10 FOR BEAM SHEAR PL.

2 BRBF JOINT CONNECTION
1" = 1'-0"

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phase	Design Development
date	4/6/2018
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BRACED FRAME DETAILS

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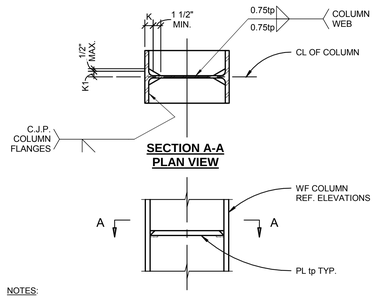
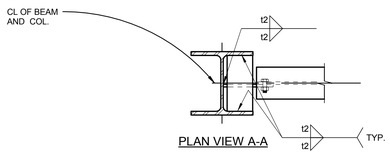
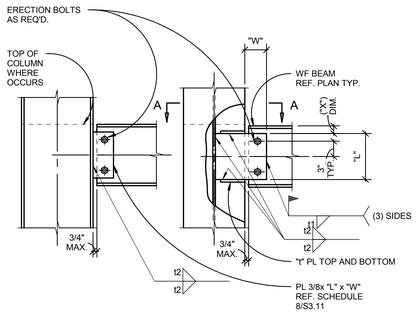


NOTES:

1. tp= THICKER OF THE TWO BEAM FLANGES FRAMING INTO EACH SIDE OF COLUMN (TWO SIDED MOMENT CONNECTIONS) OR ONE HALF BEAM FLANGE THICKNESS FOR SINGLE SIDED MOMENT CONNECTION.
2. REF. SPECIFICATIONS FOR BACKING BAR AND WELD RUNOFF TAB REQUIREMENTS.

12 COLUMN CONTINUITY PLATE DETAIL
1" = 1'-0"





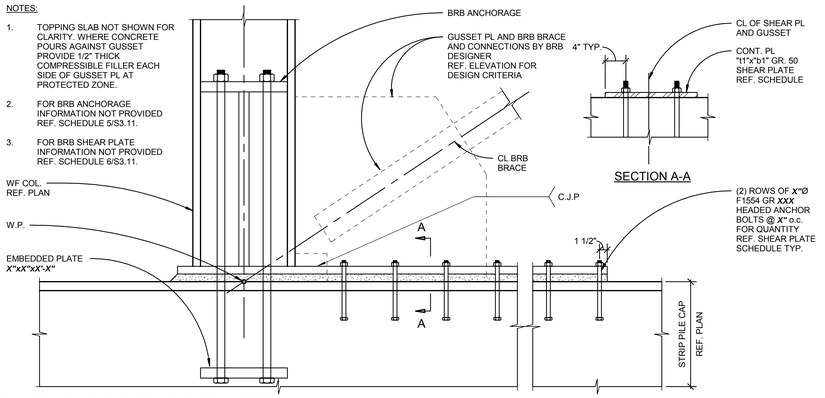
NOTES:

1. FOR ("X") DIMENSION REF. DETAIL 4/S6.01.
2. DESIGNATED ⊶ .
3. FOR WELDED TAB COLLECTOR SCHEDULE REF. 8/S3.11.

9 COLLECTOR BEAM TO COLUMN DETAIL
1" = 1'-0"

NOTES:

1. TOPPING SLAB NOT SHOWN FOR CLARITY. WHERE CONCRETE POURS AGAINST GUSSET PROVIDE 1/2" THICK COMPRESSIBLE FILLER EACH SIDE OF GUSSET PL AT PROTECTED ZONE.
2. FOR BRB ANCHORAGE INFORMATION NOT PROVIDED REF. SCHEDULE 5/S3.11.
3. FOR BRB SHEAR PLATE INFORMATION NOT PROVIDED REF. SCHEDULE 6/S3.11.



4 TYP. BRB BASE PLATE
1" = 1'-0"

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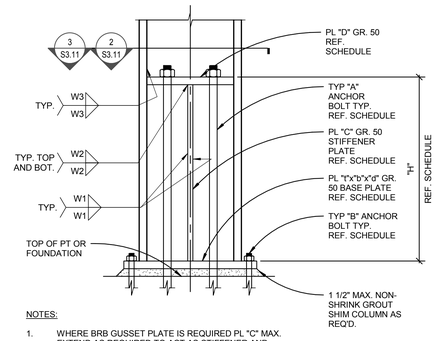
BRB ANCHORAGE SCHEDULE

GRID	DETAIL	BASE PLATE DIMENSIONS (IN)			ANCHOR BOLT		STIFFENER PLATE (IN)		ASSEMBLY HEIGHT (IN)	WELDS		
		"t"	"b"	"d"	"A"	"B"	"C"	"D"	"H"	W1	W2	W3

NOTES:

1. REFERENCE DETAIL 1/S3.11.
2. ALL BOLTS TO BE ASTM A722 GRADE 150 THREADED BAR
3. ALL HOLES TO RECEIVE THREADED BAR TO d8+1/16"

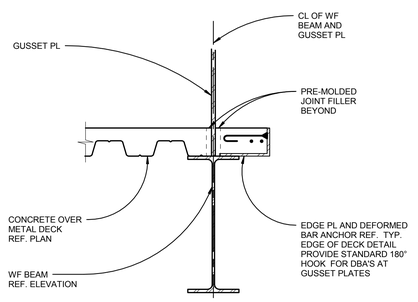
5 BRB ANCHORAGE SCHEDULE
1" = 1'-0"



NOTES:

1. WHERE BRB GUSSET PLATE IS REQUIRED PL "C" MAX. EXTEND AS REQUIRED TO ACT AS STIFFENER AND GUSSET PLATE.
2. REF. BRB ANCHORAGE SCHEDULE 5/S3.11 FOR INFORMATION NOT SHOWN.

1 TYP. BRB ANCHORAGE DETAIL
1" = 1'-0"



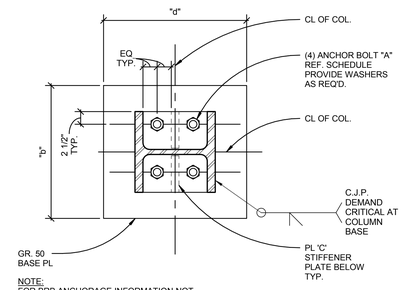
10 DECK EDGE AT BRACE FRAME GUSSET PLATE
1" = 1'-0"

BRB SHEAR PLATE SCHEDULE

GRID	SHEAR PLATE DIRECTION (NS/EW)	SHEAR PLATE SINGLE/DOUBLE	SHEAR PLATE (IN)		NO. OF BOLTS EACH SIDE	TOTAL NO. OF BOLTS
			"t1"	"b1"		

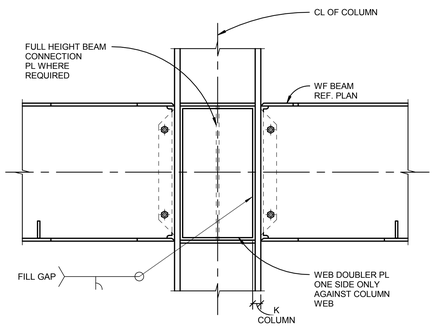
NOTE:
REFERENCE DETAILS 4/S3.11.

6 TYP. BRB SHEAR PLATE SCHEDULE
1" = 1'-0"



NOTE:
FOR BRB ANCHORAGE INFORMATION NOT PROVIDED REF. SCHEDULE 5/S3.11.

2 TYP. BRB ANCHORAGE
1" = 1'-0"



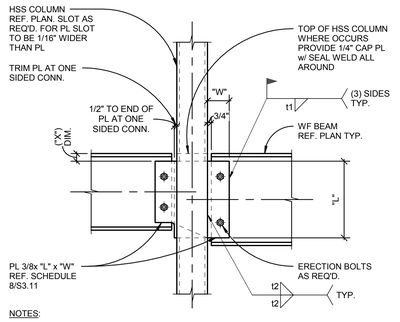
NOTE:
REF. PLAN FOR BEAM TO COLUMN CONNECTION.

11 COLUMN WEB DOUBLER PLATE
1" = 1'-0"

WELDED TAB COLLECTOR SCHEDULE

BEAM DESIGNATION	PLATE LENGTH "L"	PLATE WIDTH "W"	WELD t1	WELD t2

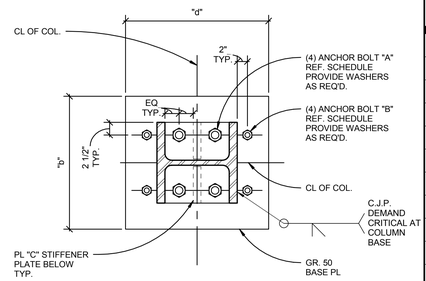
8 WELDED TAB COLLECTOR SCHEDULE
1" = 1'-0"



NOTES:

1. FOR ("X") DIMENSION REF. DETAIL 4/S6.01.
2. DESIGNATED ⊶ .
3. FOR WELDED TAB COLLECTOR SCHEDULE REF. 8/S3.11.

7 COLLECTOR BEAM TO HSS COLUMN DETAIL
1" = 1'-0"



NOTE:
FOR BRB ANCHORAGE INFORMATION NOT PROVIDED REF. SCHEDULE 5/S3.11.

3 TYP. BRB ANCHORAGE
1" = 1'-0"

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revisions	
project #	17007

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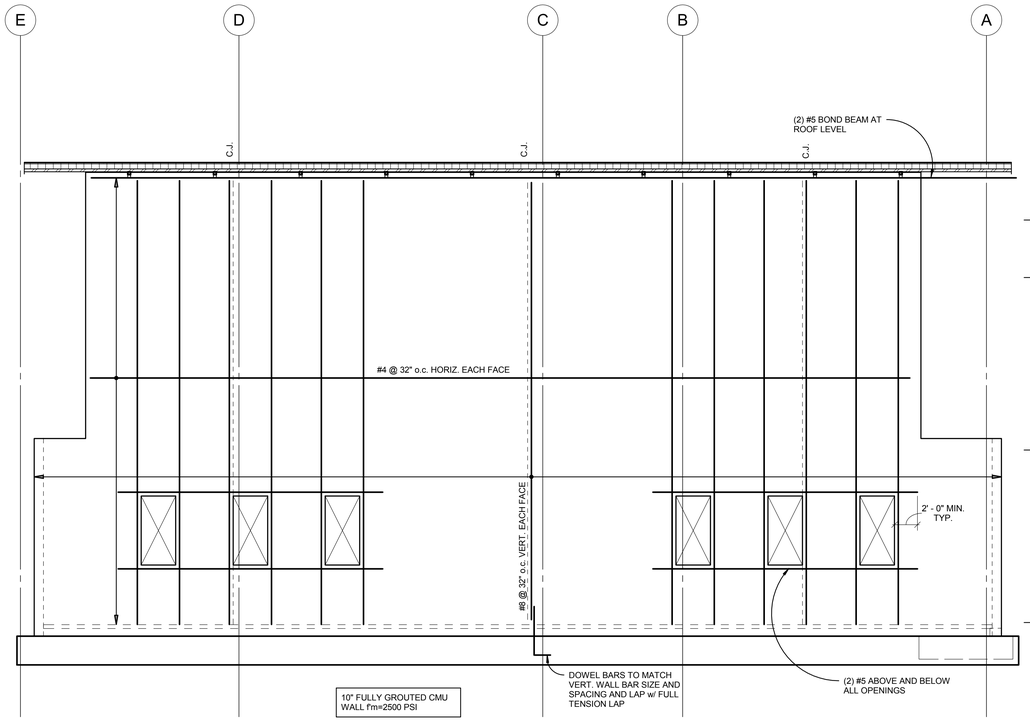
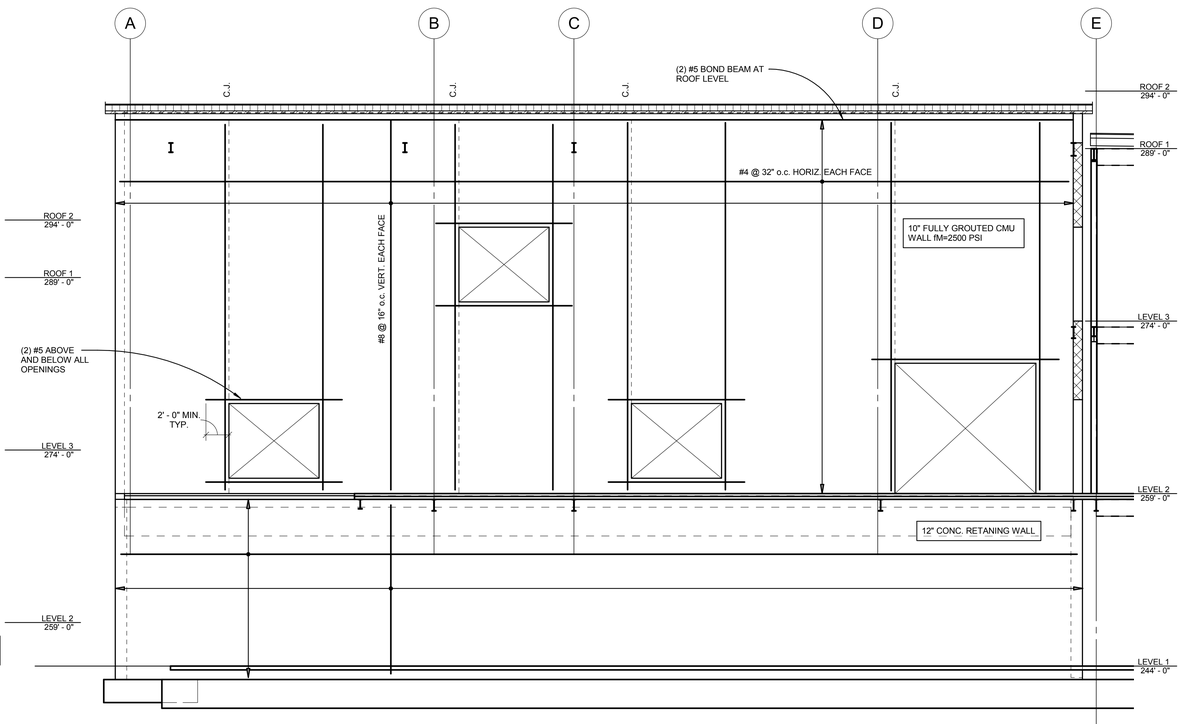


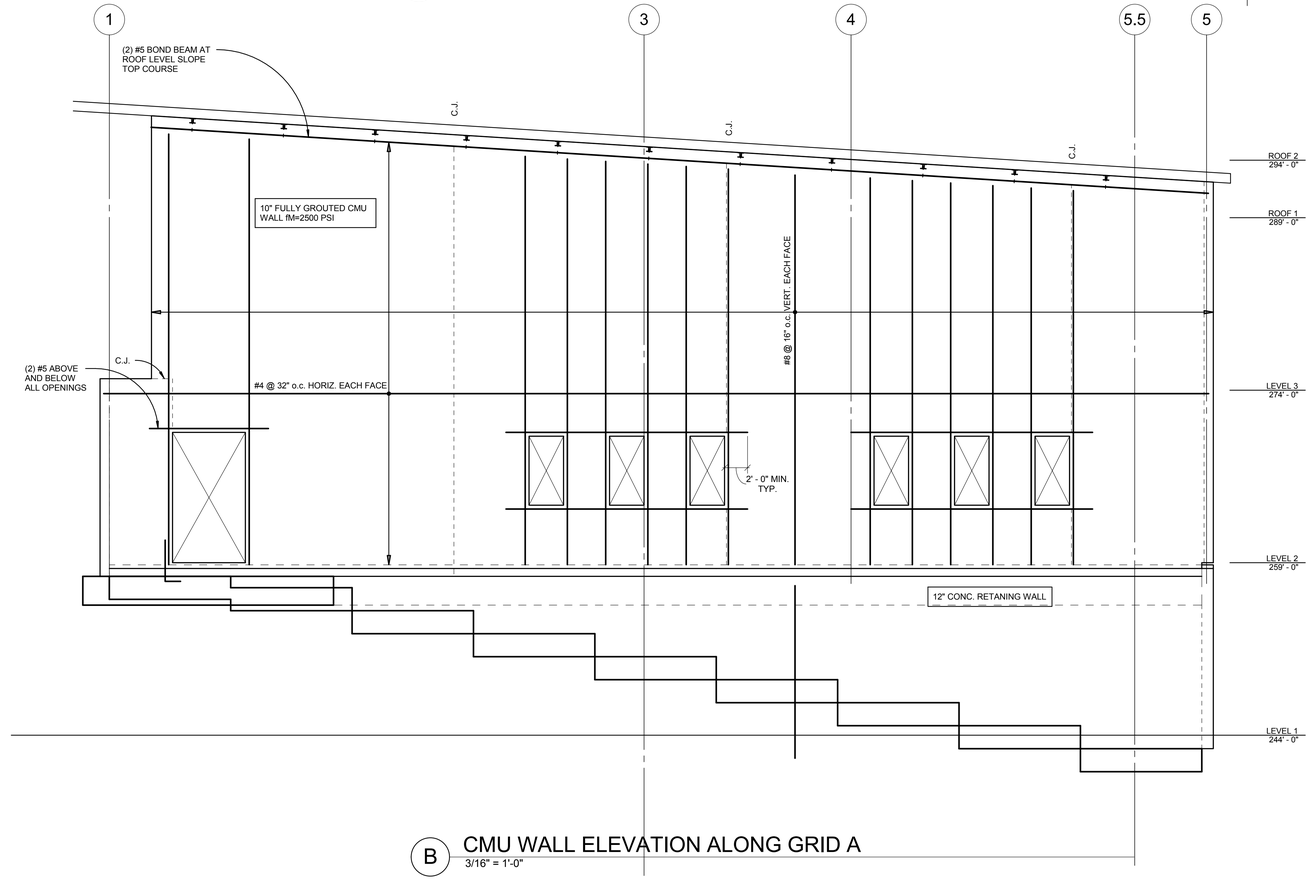
C CMU WALL ELEVATION ALONG GRID 1
3/16" = 1'-0"



A CMU WALL ELEVATION ALONG GRID 5
3/16" = 1'-0"

NOTES:

1. REINFORCEMENT TO BE PROVIDED PER GENERAL STRUCTURAL NOTES ON SHEET S002 U.N.O.
2. REF. ARCH. AND MECH. DRAWINGS FOR OPENINGS TO BE COORDINATED w/ STRUCTURAL DRAWINGS.
3. ALL CMU WALLS SHOWN ON ELEVATIONS ARE PART OF THE SLRS.
4. REF. S701 FOR TYPICAL CMU DETAILS CONFIRM DIMENSIONS w/ ARCH. DRAWINGS.
5. C.J. INDICATES CONTROL JOINT LOCATIONS. REF. S701 FOR DETAILS.
6. ALL CMU WALLS TO BE FULLY GROUTED.
7. TOP OF ARCHITECTURAL OPENINGS TO ALIGN w/ FULL CMU BLOCK. VERIFY REQUIREMENTS FOR DIMENSION OF STARTER COURSE BASED ON FIELD CONDITION.
8. ALIGN VERTICAL OPENINGS w/ HALF OF FULL BLOCK TYP.
9. REF. ARCHITECTURAL ELEVATIONS FOR COURSING REQUIREMENTS.
10. NO PLUMBING SHALL BE RUN VERTICALLY IN WALLS.
11. CONDUITS IN CMU WALLS SHALL BE NO LARGER THAN 1 1/2" O.D. WITH NO MORE THAN ONE CONDUIT PER CELL OR (2) 1" O.D. CONDUIT SHALL NOT BE LOCATED IN VERTICALLY CELLS WITH REINFORCING AND SHALL RUN VERTICALLY IN WALLS. IN (2) ADJACENT CELLS THEN NO MORE FOR 48".
12. E.J. INDICATES EXPANSION JOINT LOCATION REF. S701 FOR DETAILS.
13. HORIZONTAL CONDUITS IN CMU SHALL BE NO CLOSER THAN 48" o.c. AND ONLY LOCATED IN CELLS NOT CONTAINING HORIZ. REINF. IN 12" CMU IT IS PERMITTED TO USE (2) 1" O.D. OR (1) 1.5 O.D. IN A SINGLE COURSE. IN 8" CMU IT IS PERMITTED TO USE (2) 3/4" O.D. OR (1) 1.25" O.D. IN A SINGLE COURSE.



B CMU WALL ELEVATION ALONG GRID A
3/16" = 1'-0"

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revisions	
project #	17007

CMU WALL ELEVATIONS - SECTOR A

S3.21

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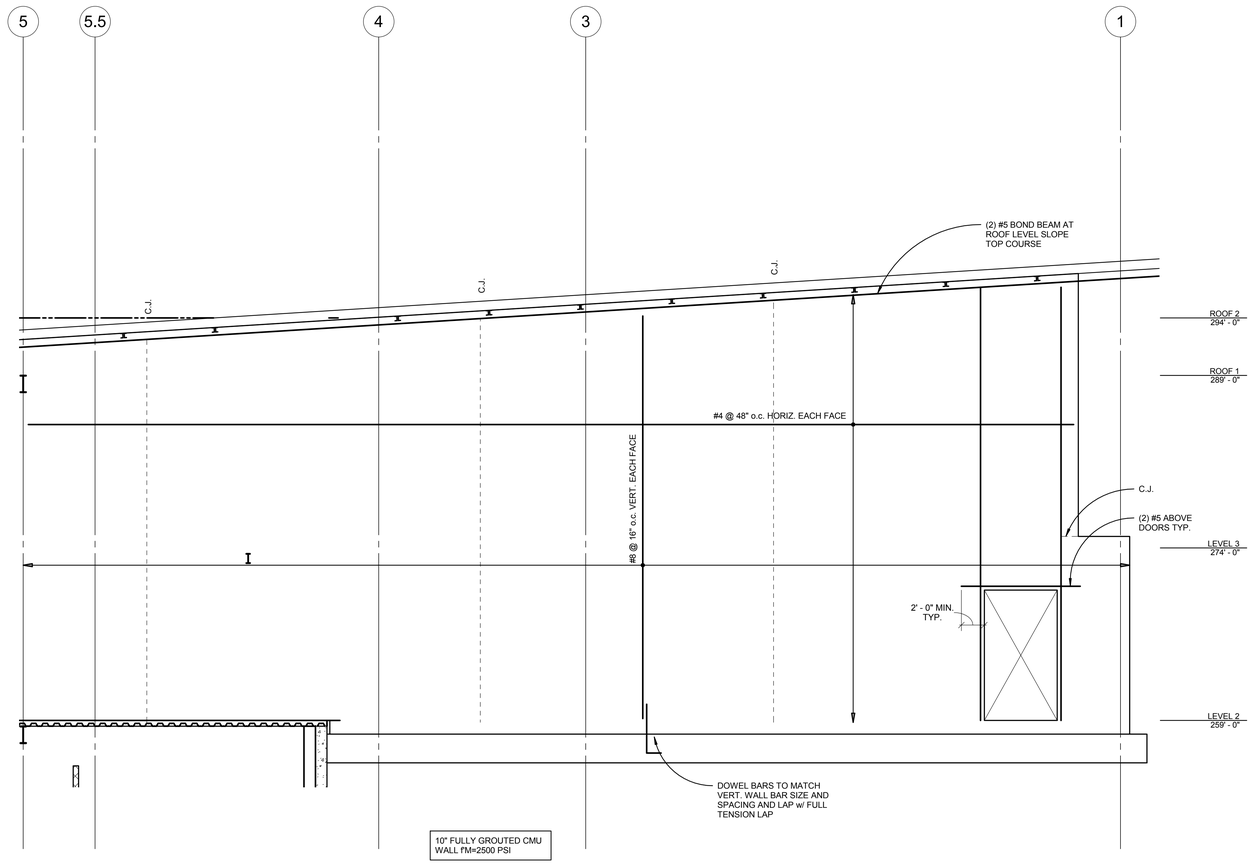
NOTES:

1. REINFORCEMENT TO BE PROVIDED PER GENERAL STRUCTURAL NOTES ON SHEET S002 U.N.O.
2. REF. ARCH. AND MECH. DRAWINGS FOR OPENINGS TO BE COORDINATED w/ STRUCTURAL DRAWINGS.
3. ALL CMU WALLS SHOWN ON ELEVATIONS ARE PART OF THE SLRS.
4. REF. S701 FOR TYPICAL CMU DETAILS CONFIRM DIMENSIONS w/ ARCH. DRAWINGS.
5. C.J. INDICATES CONTROL JOINT LOCATIONS. REF. S701 FOR DETAILS.
6. ALL CMU WALLS TO BE FULLY GROUTED.
7. TOP OF ARCHITECTURAL OPENINGS TO ALIGN w/ FULL CMU BLOCK. VERIFY REQUIREMENTS FOR DIMENSION OF STARTER COURSE BASED ON FIELD CONDITION.
8. ALIGN VERTICAL OPENINGS w/ HALF OF FULL BLOCK TYP.
9. REF. ARCHITECTURAL ELEVATIONS FOR COURSING REQUIREMENTS.
10. NO PLUMBING SHALL BE RUN VERTICALLY IN WALLS.
11. CONDUITS IN CMU WALLS SHALL BE NO LARGER THAN 1 1/2" O.D. WITH NO MORE THAN ONE CONDUIT PER CELL OR (2) 1" O.D. CONDUIT SHALL NOT BE LOCATED IN VERTICALLY CELLS WITH REINFORCING AND SHALL RUN VERTICALLY IN WALLS. IN (2) ADJACENT CELLS THEN NO MORE FOR 48".
12. E.J. INDICATES EXPANSION JOINT LOCATION REF. S701 FOR DETAILS.
13. HORIZONTAL CONDUITS IN CMU SHALL BE NO CLOSER THAN 48" o.c. AND ONLY LOCATED IN CELLS NOT CONTAINING HORIZ. REINF. IN 12" CMU IT IS PERMITTED TO USE (2) 1" O.D. OR (1) 1.5 O.D. IN A SINGLE COURSE. IN 8" CMU IT IS PERMITTED TO USE (2) 3/4" O.D. OR (1) 1.25" O.D. IN A SINGLE COURSE.



D CMU WALL ELEVATION ALONG GRID E
3/16" = 1'-0"

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revisions	
project #	17007

CMU WALL ELEVATIONS - SECTOR A

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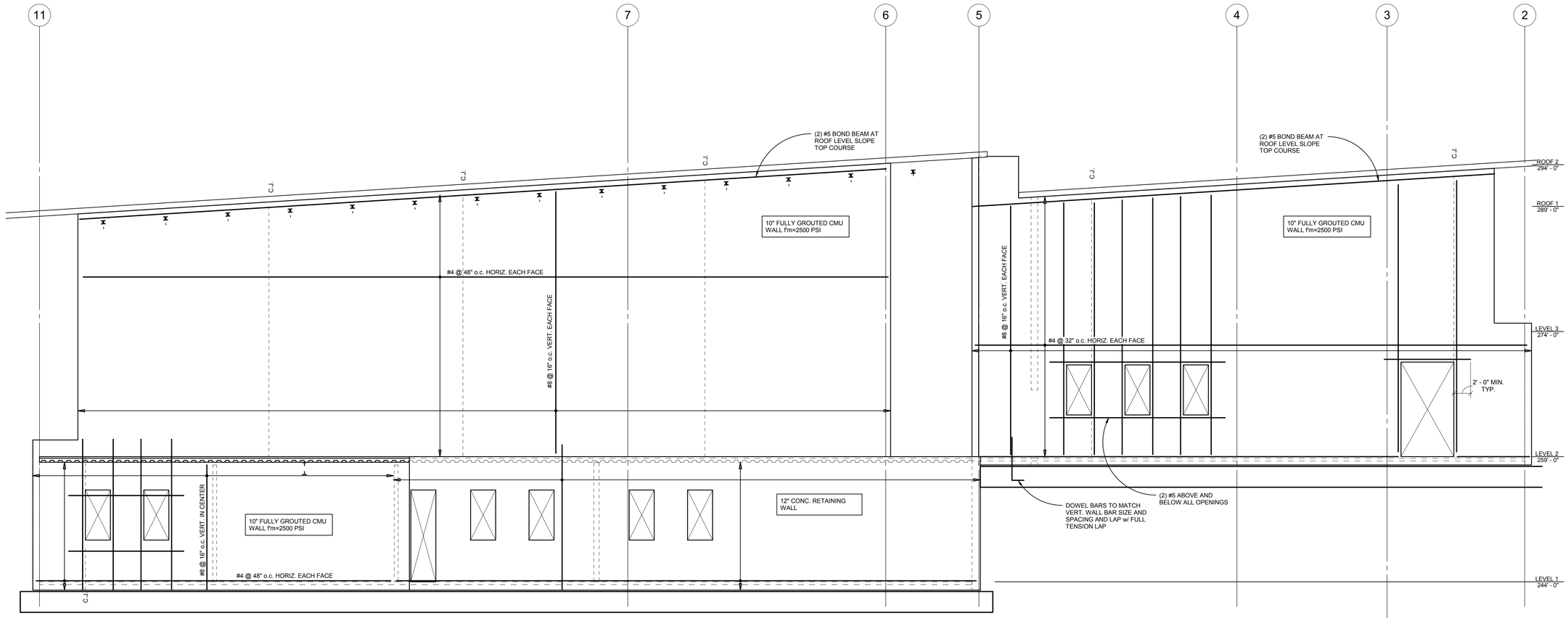

E CMU WALL ELEVATION ALONG GRID P
3/16" = 1'-0"

NOTES:

1. REINFORCEMENT TO BE PROVIDED PER GENERAL STRUCTURAL NOTES ON SHEET S002 U.N.O.
2. REF. ARCH. AND MECH. DRAWINGS FOR OPENINGS TO BE COORDINATED w/ STRUCTURAL DRAWINGS.
3. ALL CMU WALLS SHOWN ON ELEVATIONS ARE PART OF THE SLRS.
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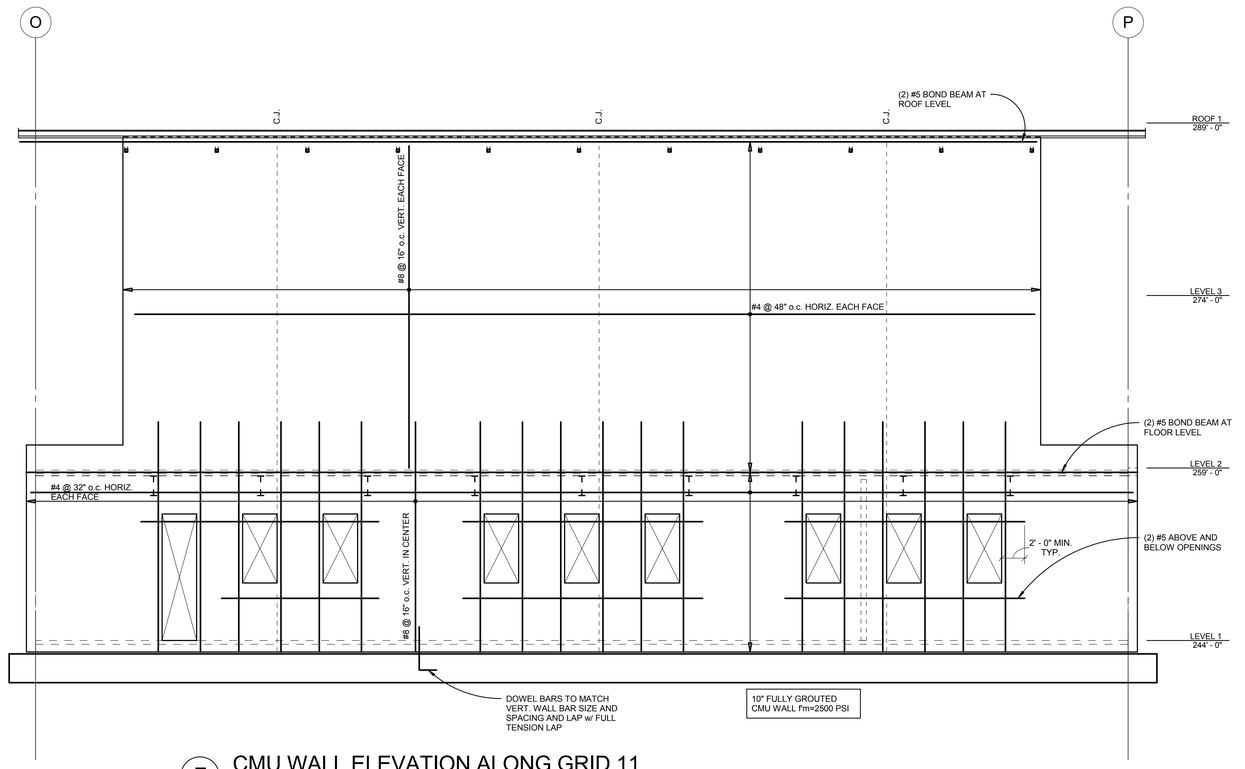

F CMU WALL ELEVATION ALONG GRID 11
3/16" = 1'-0"

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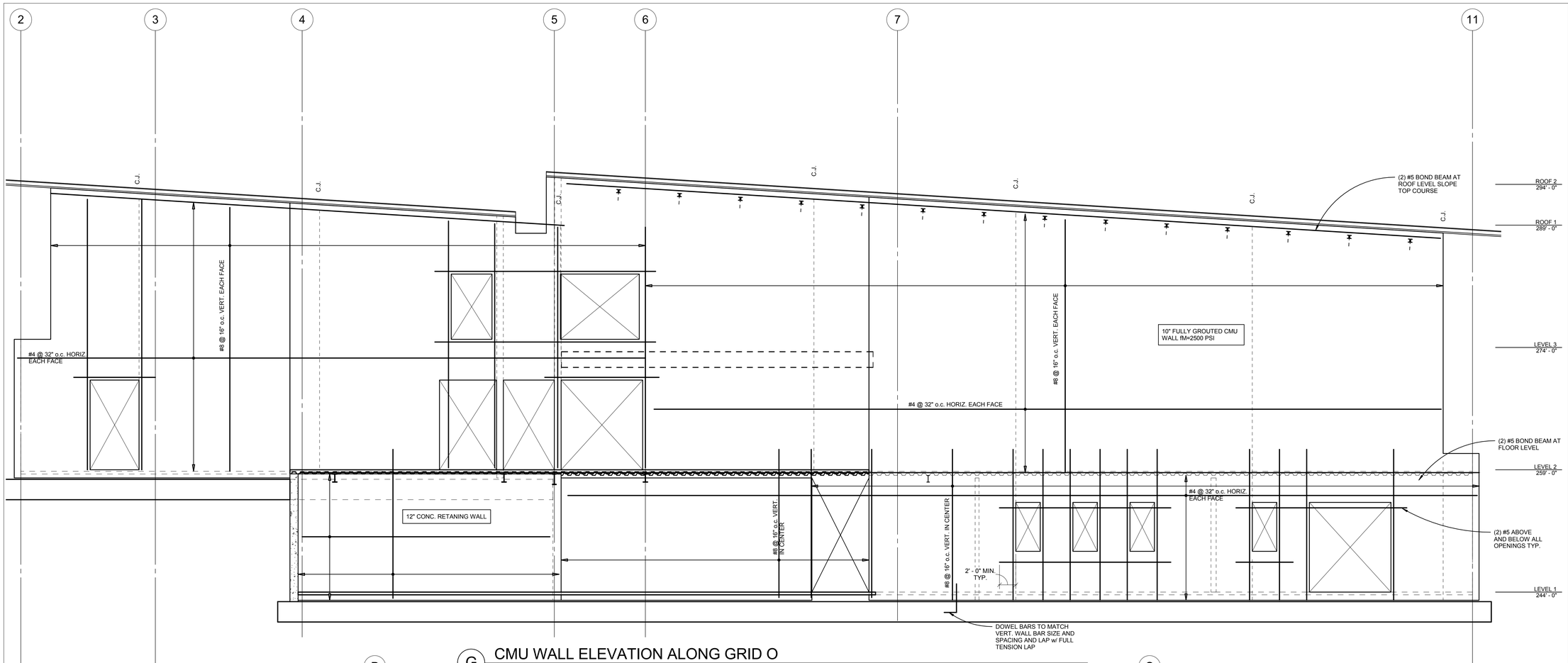
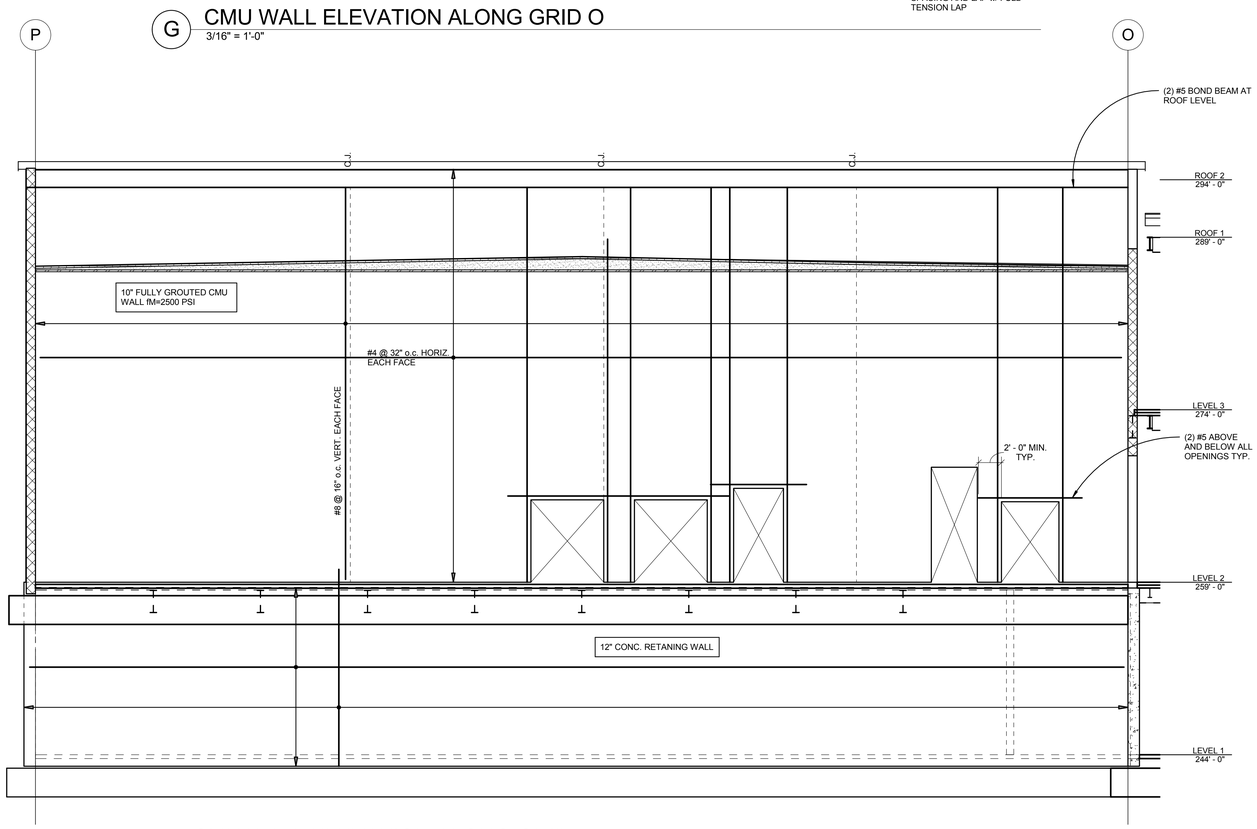
phase	Design Development
date	4/6/2018
revisions	
project #	17007

CMU WALL ELEVATIONS - SECTOR C

S3.23



G CMU WALL ELEVATION ALONG GRID O
3/16" = 1'-0"



H CMU WALL ELEVATION ALONG GRID 5
3/16" = 1'-0"

NOTES:

1. REINFORCEMENT TO BE PROVIDED PER GENERAL STRUCTURAL NOTES ON SHEET S002 U.N.O.
2. REF. ARCH. AND MECH. DRAWINGS FOR OPENINGS TO BE COORDINATED w/ STRUCTURAL DRAWINGS.
3. ALL CMU WALLS SHOWN ON ELEVATIONS ARE PART OF THE SLRS.
4. REF. S701 FOR TYPICAL CMU DETAILS CONFIRM DIMENSIONS w/ ARCH. DRAWINGS.
5. C.J. INDICATES CONTROL JOINT LOCATIONS. REF. S701 FOR DETAILS.
6. ALL CMU WALLS TO BE FULLY GROUTED.
7. TOP OF ARCHITECTURAL OPENINGS TO ALIGN w/ FULL CMU BLOCK. VERIFY REQUIREMENTS FOR DIMENSION OF STARTER COURSE BASED ON FIELD CONDITION.
8. ALIGN VERTICAL OPENINGS w/ HALF OF FULL BLOCK TYP.
9. REF. ARCHITECTURAL ELEVATIONS FOR COURSING REQUIREMENTS.
10. NO PLUMBING SHALL BE RUN VERTICALLY IN WALLS.
11. CONDUITS IN CMU WALLS SHALL BE NO LARGER THAN 1 1/2" O.D. WITH NO MORE THAN ONE CONDUIT PER CELL OR (2) 1" O.D. CONDUIT SHALL NOT BE LOCATED IN VERTICALLY CELLS WITH REINFORCING AND SHALL RUN VERTICALLY IN WALLS. IN (2) ADJACENT CELLS THEN NO MORE FOR 48".
12. E.J. INDICATES EXPANSION JOINT LOCATION REF. S701 FOR DETAILS.
13. HORIZONTAL CONDUITS IN CMU SHALL BE NO CLOSER THAN 48" o.c. AND ONLY LOCATED IN CELLS NOT CONTAINING HORIZ. REINF. IN 12" CMU IT IS PERMITTED TO USE (2) 1" O.D. OR (1) 1.5 O.D. IN A SINGLE COURSE. IN 8" CMU IT IS PERMITTED TO USE (2) 3/4" O.D. OR (1) 1.25" O.D. IN A SINGLE COURSE.

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phase	Design Development
date	4/6/2018
revisions	
project #	17007

CMU WALL ELEVATIONS - SECTOR C

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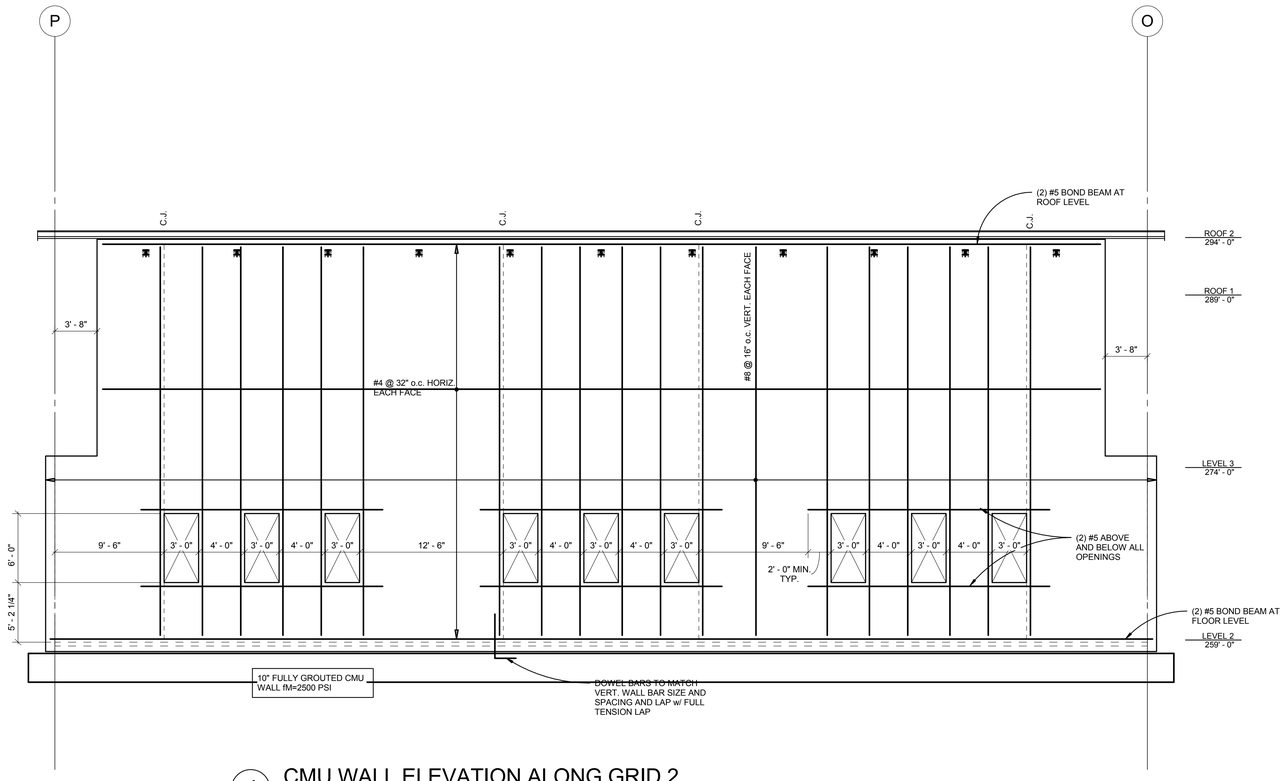

J CMU WALL ELEVATION ALONG GRID 2
3/16" = 1'-0"

NOTES:

1. REINFORCEMENT TO BE PROVIDED PER GENERAL STRUCTURAL NOTES ON SHEET S002 U.N.O.
2. REF. ARCH. AND MECH. DRAWINGS FOR OPENINGS TO BE COORDINATED w/ STRUCTURAL DRAWINGS.
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8. ALIGN VERTICAL OPENINGS w/ HALF OF FULL BLOCK TYP.
9. REF. ARCHITECTURAL ELEVATIONS FOR COURSING REQUIREMENTS.
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phase	Design Development
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revisions	
project #	17007

CMU WALL ELEVATIONS - SECTOR C

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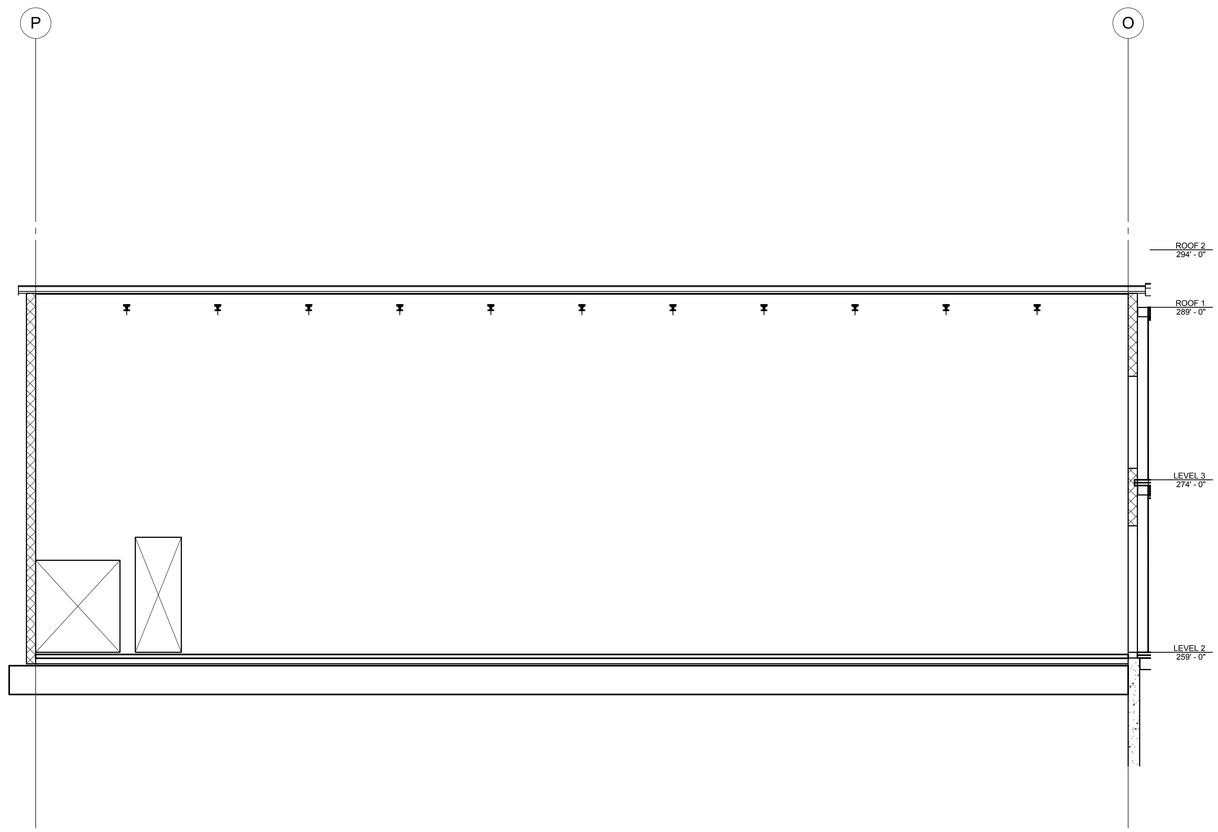

K CMU WALL ELEVATION

3/16" = 1'-0"

NOTES:

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phase	Design Development
date	4/6/2018
revisions	
project #	17007

CMU WALL ELEVATION - SECTOR C

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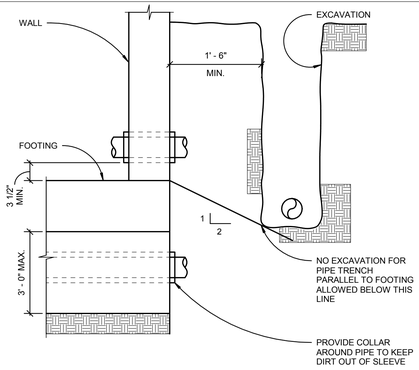
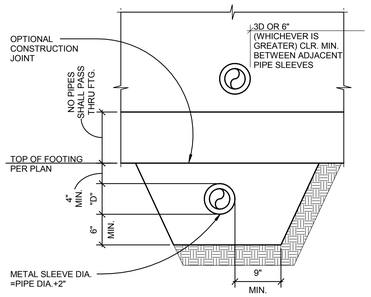


SECTION

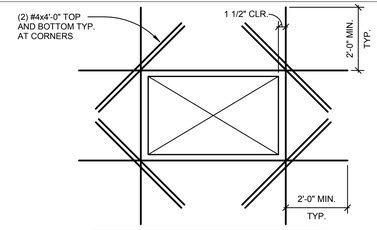


ELEVATION

NOTES:

1. STEP FOOTING PER TYP. STEPPED FOOTING DETAIL AS REQUIRED TO SATISFY THESE CONDITIONS.
2. GENERAL CONTRACTOR TO COORDINATE EXACT DEPTH AND LOCATION OF PIPE.
3. "D" SHALL NOT EXCEED 8".
4. PROVIDE WALL REINF. AROUND PENETRATION REF. RETAINING WALL DETAIL.

14 TYP. PIPE PENETRATION AT FOUNDATION WALL
1" = 1'-0"

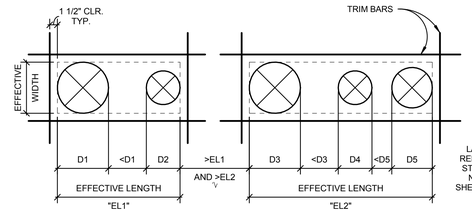


MAX. DIMENSION	REINFORCING
1'-0" TO 1'-6"	(2) #4 EACH SIDE AT CL OF SLAB
1'-6" TO 2'-0"	(2) #4 TOP AND BOT. EACH SIDE

NOTES:

1. ALL OPENINGS LARGER THAN 1'-0" SHALL BE TRIMMED AS SHOWN.
2. THESE BARS ARE IN ADDITION TO REBAR SHOWN ON PLANS.
3. REF. 11/S5.01 FOR MULTIPLE OPENINGS.
4. OPENINGS LARGER THAN 2'-0"x2'-0" NOT SHOWN ON PLAN ARE NOT ALLOWED WITHOUT APPROVAL FROM ENGINEER OF RECORD.

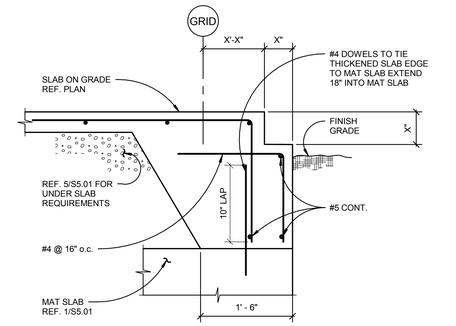
10 TRIM BARS FOR INTERIOR OPENING IN SLAB
1" = 1'-0"



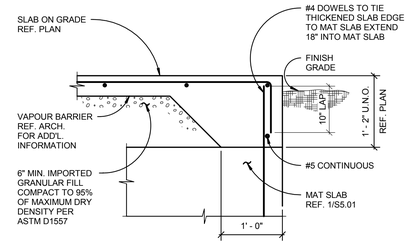
NOTES:

1. OPENINGS WHICH ARE CLOSER TO ONE ANOTHER THAN THE DIAMETER OF THE LARGER OF THE TWO ARE CONSIDERED TO FORM A COMBINED OPENING.
2. IF THE COMBINED OPENING IS LESS THAN 1'-0", NO TRIM BARS ARE REQUIRED.
3. IF THE COMBINED OPENING IS MORE THAN 1'-0", BUT LESS THAN 2'-0", PROVIDE REINFORCING PER 10/S5.01.
4. DIAGONAL BARS NOT REQUIRED.
5. COMBINED OPENINGS WITH EFFECTIVE LENGTH LARGER THAN 2'-0" NOT SHOWN ON PLAN ARE NOT ALLOWED WITHOUT APPROVAL FROM ENGINEER OF RECORD.

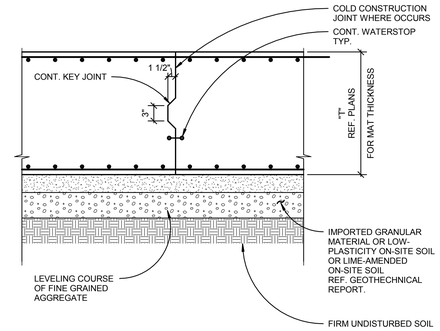
11 TRIM BARS FOR MULTIPLE OPENINGS
1" = 1'-0"



8 THICKENED SLAB ON GRADE EDGE DETAIL
1" = 1'-0"

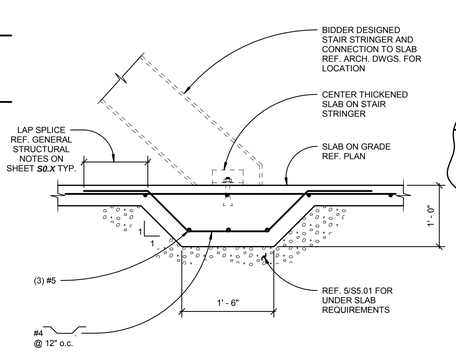


5 THICKENED SLAB ON GRADE EDGE DETAIL
1" = 1'-0"

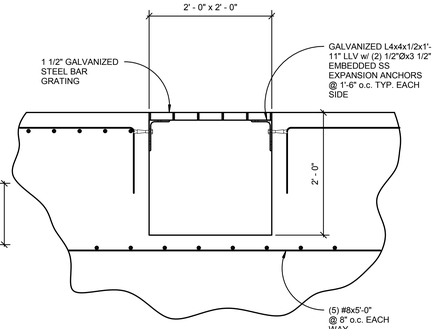


NOTE:
THE SUBGRADE FILL SHOWN IN THIS DETAIL IS TYP. FOR ALL LOCATIONS UNDER THE MAT FOUNDATION.

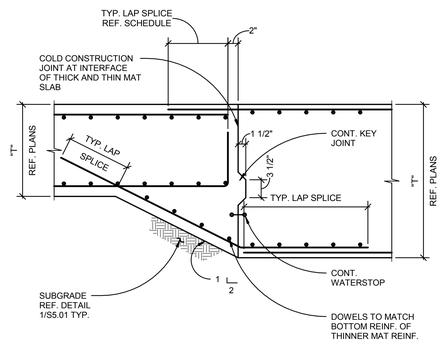
1 TYP. MAT FOUNDATION DETAIL
1" = 1'-0"



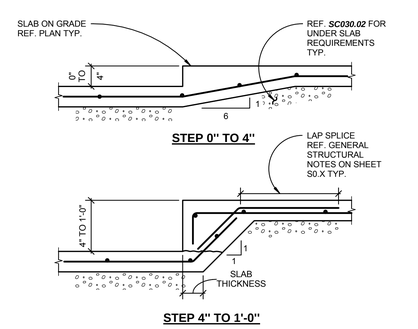
9 THICKENED SLAB AT STAIR STRINGER
1" = 1'-0"



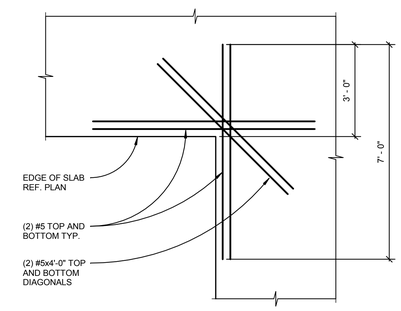
6 TYP. ELEVATOR SUMP PIT DETAIL
1" = 1'-0"



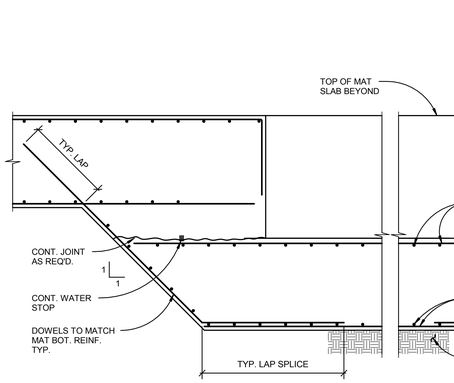
2 TYP. MAT FOUNDATION TRANSITION
1" = 1'-0"



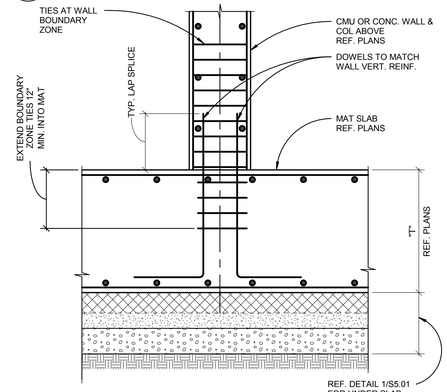
15 TYP. STEP IN SLAB ON GRADE
1" = 1'-0"



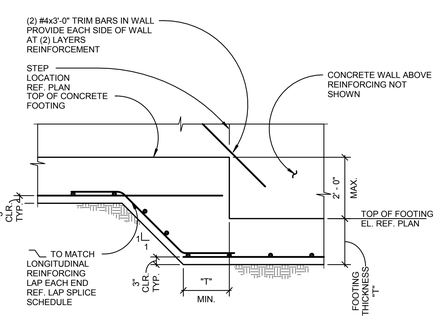
12 TRIM BARS AT RE-ENTRANT CORNERS
1/2" = 1'-0"



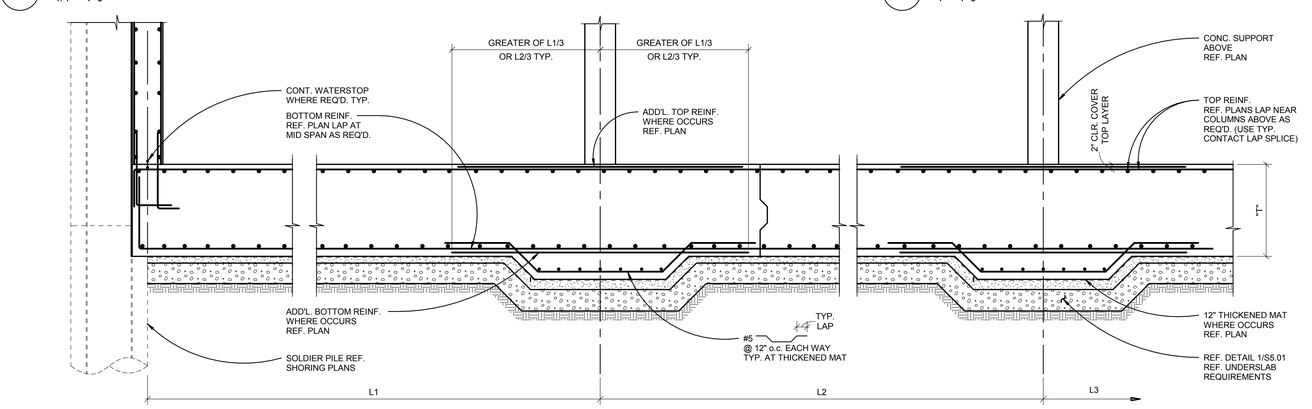
7 TYP. MAT FOUNDATION AT ELEVATOR PIT
1/4" = 1'-0"



3 TYP. SHEAR WALL DETAIL
1" = 1'-0"



13 TYP. STEPPED WALL FOOTING DETAIL
1/2" = 1'-0"



4 TYP. MAT SLAB ON GRADE DETAIL
1/2" = 1'-0"

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project #	17007

CONCRETE DETAILS

S5.01

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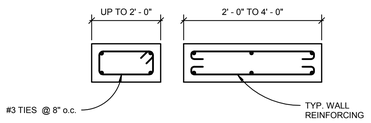
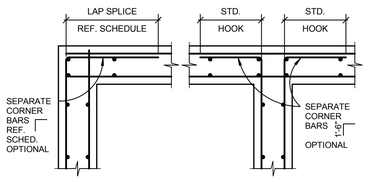
CANTILEVERED RETAINING WALL SCHEDULE

"H" (FT.)	"W" (FT.)	"T" (FT.)	"B" (FT.)	"A" (FT.)	"C" (FT.)	REINFORCING									REMARKS
						"a"	"b"	"c"	"d"	"e"	"f"	"g"	"h"	"j"	

9 SITE CANTILEVERED RETAINING WALL SCHEDULE
1" = 1'-0"



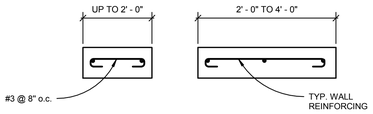
BARS IN SMALL SECTION



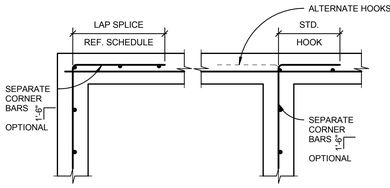
CORNER DETAILS

NOTE:
ABOVE DETAILS APPLY IN BOTH HORIZONTAL AND VERTICAL DIRECTIONS.

DOUBLE LAYER REINFORCING



BARS IN SMALL SECTION



CORNER DETAILS

NOTE:
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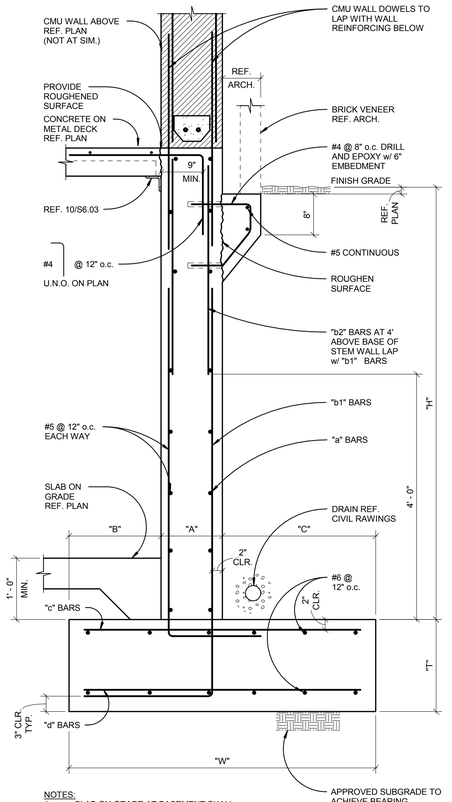
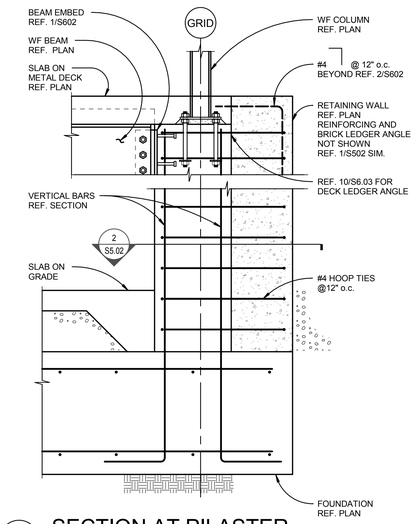
SINGLE LAYER REINFORCING

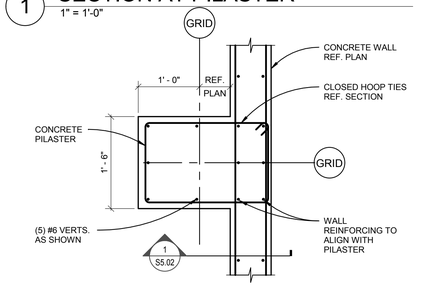
7 WALL DETAILS - REINFORCING
1" = 1'-0"



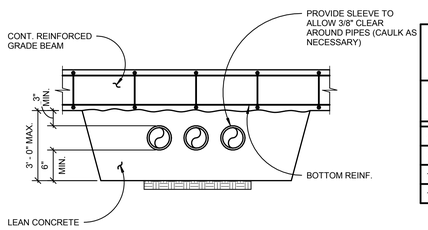
NOTES:
1. SLAB ON GRADE AT BASEMENT SHALL BE POURED PRIOR TO BACKFILL
2. WALL DESIGNED FOR 100 PSF SURCHARGE.

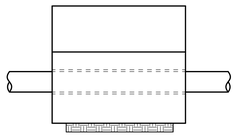


1 SECTION AT PILASTER
1" = 1'-0"

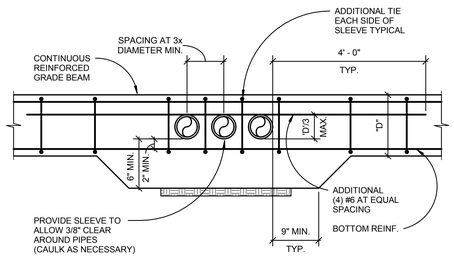


2 PILASTER DETAIL
1" = 1'-0"





PIPES RUNNING PERPENDICULAR TO GRADE BEAM



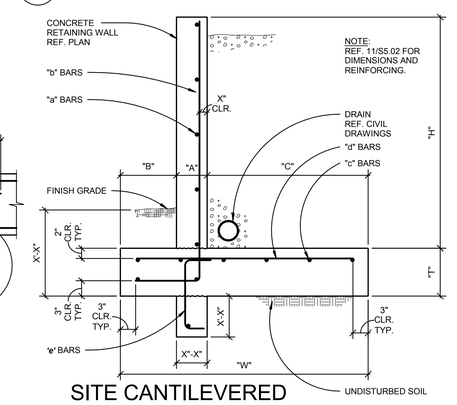
PIPES ABOVE BOTTOM REINFORCEMENT

8 PIPE/CONDUIT AT GRADE BEAM
1" = 1'-0"

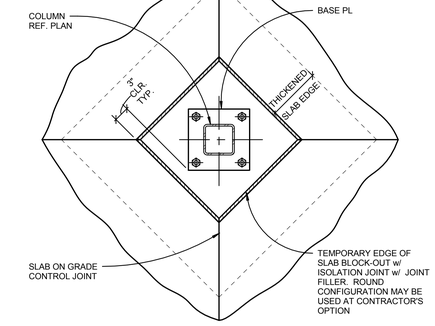
CANTILEVERED RETAINING WALL SCHED.

"H" (FT.)	"W" (FT.)	"T" (FT.)	"B" (FT.)	"A" (FT.)	"C" (FT.)	REINFORCING				
						"a"	"b1"	"b2"	"c"	"d"
4'-0"	7'-0"	1'-6"	2'-6"	1'-0"	3'-6"	#5 @ 12"	#6 @ 12"	#6 @ 12"	#5 @ 12"	#6 @ 12"
8'-0"	7'-0"	1'-6"	2'-6"	1'-0"	3'-6"	#5 @ 12"	#9 @ 12"	#7 @ 12"	#5 @ 12"	#6 @ 12"
12'-0"	8'-6"	1'-6"	3'-0"	1'-0"	4'-6"	#5 @ 12"	#9 @ 8"	#8 @ 12"	#6 @ 12"	#7 @ 12"
16'-0"	10'-8"	1'-6"	3'-0"	1'-4"	6'-4"	#6 @ 12"	#10 @ 8"	#8 @ 9"	#8 @ 12"	#7 @ 12"

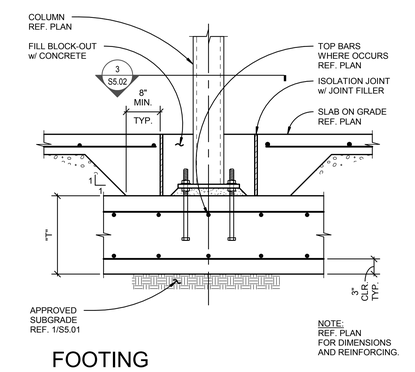
5 CANTILEVERED RETAINING WALL DETAIL AND SCHEDULE
1" = 1'-0"



6 SITE CANTILEVERED RETAINING WALL DETAIL
N.T.S.



3 ISOLATION JOINT AT COLUMN
1" = 1'-0"



4 FOOTING DETAIL AT STEEL COLUMN
1" = 1'-0"

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phase	Design Development
date	4/6/2018
revisions	
project #	17007

CONCRETE DETAILS

S5.02

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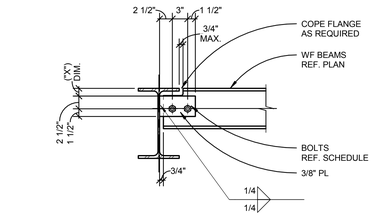


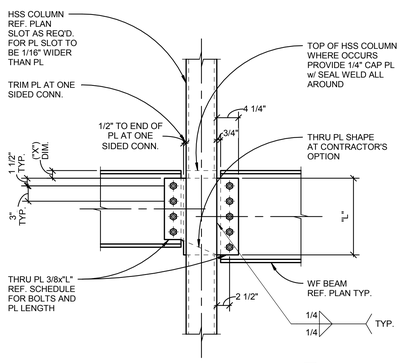
W6 OR W8 BEAM TO BEAM DESIGNATED XD

NOTES:

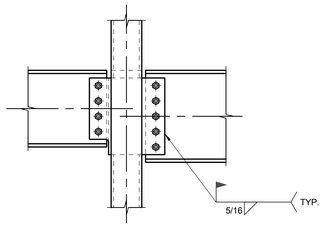
1. FOR BOLTS REF. 3/S6.01.
2. FOR ("X") DIMENSION REF. DETAIL 4/S6.01.

10 2D BOLTED BEAM TO BEAM CONNECTION

1" = 1'-0"



BEAM TO HSS COLUMN DESIGNATED XS



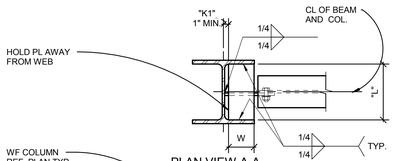
WELDED BEAM TO HSS COLUMN SHEAR PL - DESIGNATED XW

NOTES:

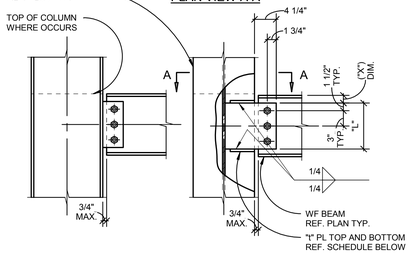
1. FOR INFORMATION NOT SHOWN XW REF. CONDITION XS.
2. FOR PL LENGTH ("L") AND BOLTS REF. SCHEDULE 3/S6.01.
3. FOR ("X") DIMENSION REF. DETAIL 4/S6.01.

8 BOLTED THRU PL AT WF BEAM TO HSS COLUMN

1" = 1'-0"

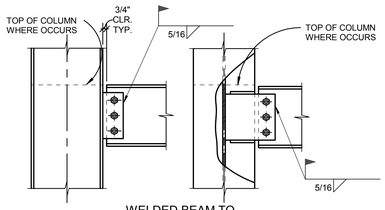


PLAN VIEW A-A



L/W RATIO	"t" PL
< 3	1/2"
≥ 3	3/4"

TYP. BEAM TO COLUMN DESIGNATED X



WELDED BEAM TO COLUMN SHEAR PL - DESIGNATED XW

NOTES:

1. FOR INFORMATION NOT SHOWN REF. TYP. BEAM TO COLUMN DETAIL.
2. FOR PL LENGTH ("L") AND BOLTS REF. SCHEDULE 3/S6.01. FOR WELDS NOT SHOWN, PL THICKNESS, AND ("X") DIMENSION REF. DETAIL 4/S6.01.
3. FOR WELDS AT SKEWED CONNECTIONS REF. 9/S6.01.

5 TYP. BOLTED WF BEAM TO WF COLUMN DETAILS

1" = 1'-0"

SINGLE ROW BEARING BOLTED BEAM CONNECTION SCHEDULE

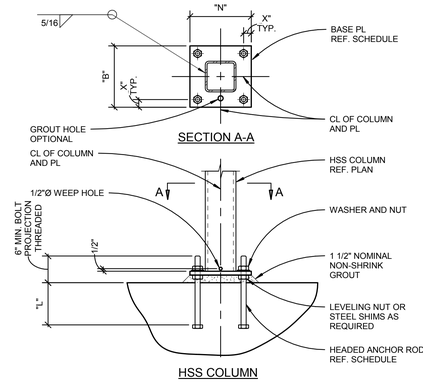
CONNECTION TYPE	NO. OF 3/4"Ø A325 BOLTS	PL LENGTH "L"	HOLE SIZE
2D	2	REFERENCE DETAIL 10/S6.01	
2 2F	2	6"	STANDARD HOLE
3 3F	3	9"	STANDARD HOLE
4 4F	4	12"	STANDARD HOLE
5 5F	5	15"	STANDARD HOLE
6 6F	6	18"	STANDARD HOLE
7 7F	7	21"	STANDARD HOLE
8 8F	8	24"	HORIZONTAL SHORT SLOTTED HOLE IN PL
9 9F	9	27"	HORIZONTAL SHORT SLOTTED HOLE IN PL
10 10F	10	30"	HORIZONTAL SHORT SLOTTED HOLE IN PL

NOTES:

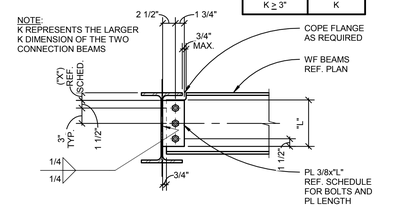
1. X INDICATES BEARING TYPE CONNECTION WITH THREADS INCLUDED IN SHEAR PLANE (A325N).
2. XF INDICATES SLIP CRITICAL CONNECTION (A325SC).

3 SINGLE ROW BEARING BOLTED BEAM CONNECTION SCHEDULE

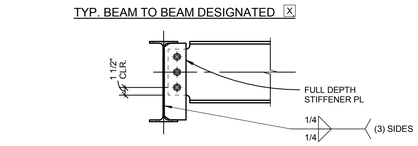
1" = 1'-0"



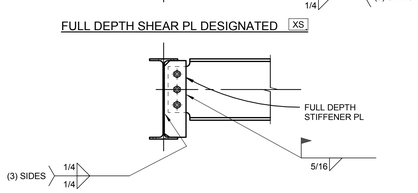
K	"X"
K ≤ 1 1/2"	1 1/2"
1 1/2" < K ≤ 2"	2"
2" < K ≤ 3"	3"
K ≥ 3"	K



TYP. BEAM TO BEAM DESIGNATED X



FULL DEPTH SHEAR PL DESIGNATED XS



FULL DEPTH WELDED SHEAR PL DESIGNATED XW

NOTES:

1. FOR SCHEDULE REF. 3/S6.01.
2. FOR INFORMATION NOT SHOWN ON XS AND XW REFERENCE CONDITION X .
3. FOR WELDS AT SKEWED CONNECTIONS REF. 9/S6.01.

4 TYP. BOLTED BEAM TO BEAM CONNECTION

1" = 1'-0"

TYP. GRAVITY COLUMN BASE PL SCHEDULE

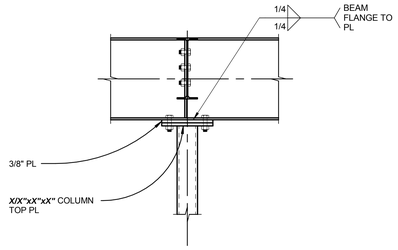
COLUMN SIZE	N (IN.)	B (IN.)	T (IN.)	X (IN.)	L (IN.)	ANCHOR RODS (NO.) DIAMETER
HSS4x4	10	10	3/4	1 1/2	9	(4) 7/8"
HSS6x6	12	12	1	1 1/2	9	(4) 7/8"
HSS8x8	14	14	1 1/4	1 1/2	9	(4) 7/8"

NOTES:

1. ANCHOR RODS SHALL BE HEADED ASTM F1554 GRADE 36 U.N.O. THREADED ROD MAY BE USED AT CONTRACTOR'S OPTION PROVIDED THAT NUT IS TACK WELDED TO ROD.
2. ANCHOR ROD HOLE DIAMETERS (dh) SHALL BE AS FOLLOWS:
   db ≤ 1" : dh = db + 5/16"
   1" < db ≤ 2" : dh = db + 1/2"
   db > 2" : dh = db + 1"
3. PROVIDE MILL FINISH AT BOTTOM OF COLUMN AND TOP OF BASE PL
4. ACCEPTABLE TO SLOT HOLES RADIALLY TO ALLOW FOR CONSTRUCTION TOLERANCE PLATE WASHER REQUIRED REF. NOTES.
5. SQUARE OR CIRCULAR PL WASHERS SHALL BE USED (ASTM A36) WHERE HOLES ARE SLOTTED OR OVERSIZED. MINIMUM WASHER SIZES SHALL BE IN ACCORDANCE WITH AISC TABLE 14-2.

1 TYP. GRAVITY COLUMN BASE PLATE DETAIL

1" = 1'-0"



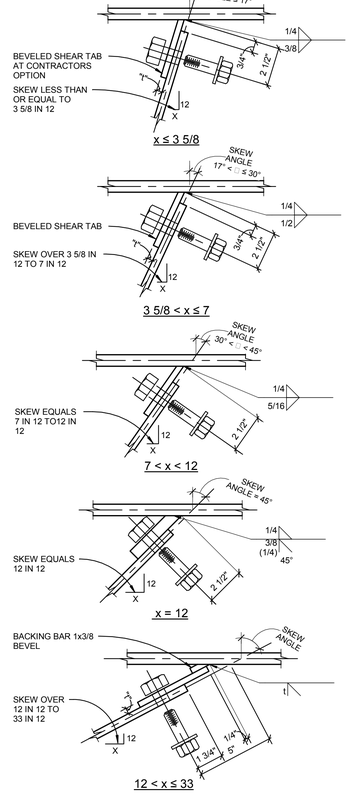
BEAM FLANGE bf < 5 1/2"

NOTES:

1. FOR STIFFENER PL INFORMATION REF. 4/S6.01.
2. FOR INFORMATION NOT SHOWN ON BEAM FLANGE < 5 1/2" REF. CONDITION BEAM FLANGE > 5 1/2".

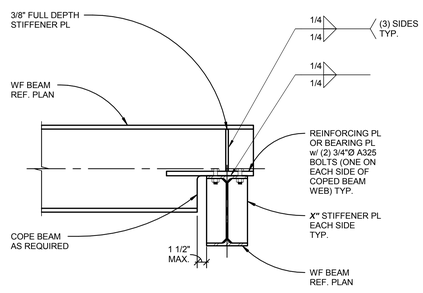
11 TYP. BEAM OVER COLUMN DETAIL

1" = 1'-0"



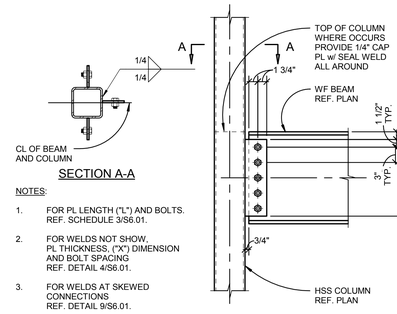
9 TYP. SKEWED SHEAR PL WELDS

3" = 1'-0"



12 BEAM SEAT CONNECTION

1" = 1'-0"



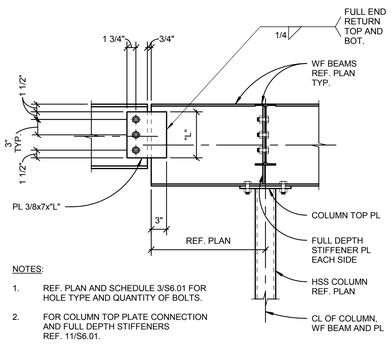
SECTION A-A

NOTES:

1. FOR PL LENGTH ("L") AND BOLTS. REF. SCHEDULE 3/S6.01.
2. FOR WELDS NOT SHOW, PL THICKNESS, ("X") DIMENSION AND BOLT SPACING REF. DETAIL 4/S6.01.
3. FOR WELDS AT SKEWED CONNECTIONS REF. DETAIL 9/S6.01.

6 TYP. BOLTED WF BEAM TO HSS COLUMN AT MULTIPLE SIDED CONNECTIONS - DESIGNATED X

1" = 1'-0"

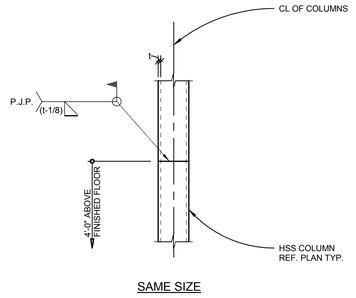


NOTES:

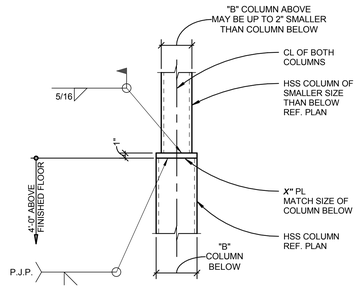
1. REF. PLAN AND SCHEDULE 3/S6.01 FOR HOLE TYPE AND QUANTITY OF BOLTS.
2. FOR COLUMN TOP PLATE CONNECTION AND FULL DEPTH STIFFENERS REF. 11/S6.01.

7 TYP. BEAM SPLICE DETAIL AT COLUMN

1" = 1'-0"



SAME SIZE



2 TYP. HSS STEPPED SIZE TO HSS GRAVITY COLUMN SPLICE

1" = 1'-0"

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phase	Design Development
date	4/6/2018
revisions	
project #	17007

STEEL DETAILS

S6.01

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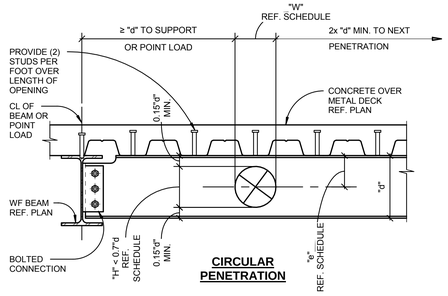
BEAM PENETRATION								
MARK	TYPE	"H"	"W"	"e"	REINF. PLATE			WELD
					"L"	WIDTH	THICKNESS	"t"
1	U				-	-	-	-
2	U				-	-	-	-
3	R							
3	R							
4	R							
5	R							

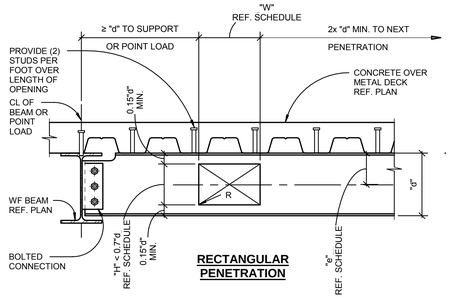
NOTES:

1. U INDICATES UNREINFORCED BEAM PENETRATION REF. 5/S6.02.
2. R INDICATES REINFORCED BEAM PENETRATION REF. 6/S6.02.

7 BEAM PENETRATION - SCHEDULE
1" = 1'-0"



CIRCULAR PENETRATION

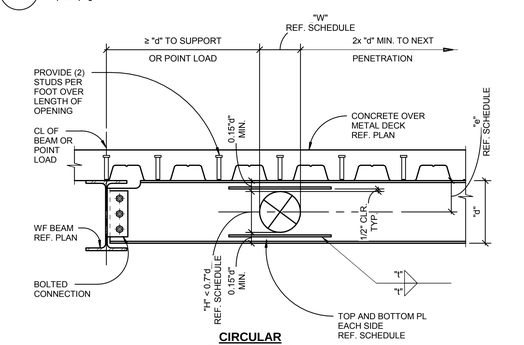


RECTANGULAR PENETRATION

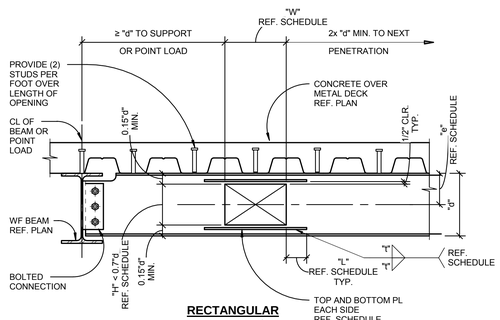
NOTES:

1. REF. PLANS FOR SIZES AND LOCATIONS OF PENETRATIONS CONTRACTOR TO VERIFY.
2. ALL PENETRATION SHALL BE IN SHOP DRAWINGS AND REVIEWED BY THE ENGINEER. NO PENETRATIONS SHALL BE MADE WITHOUT APPROVAL FROM ENGINEER.
3. R = 2x WEB THICKNESS OR 5/8" WHICHEVER IS GREATER.
4. FOR BEAM PENETRATION SCHEDULE REF. 7/S6.02.
5. FOR BOLTED CONNECTION REF. 4/S6.01.

5 BEAM PENETRATION - UNREINFORCED
1" = 1'-0"



CIRCULAR PENETRATION

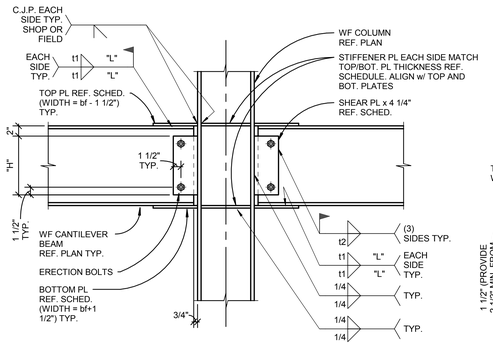


RECTANGULAR PENETRATION

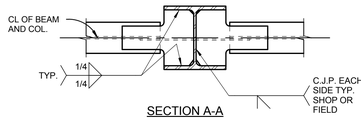
NOTES:

1. REF. PLANS FOR SIZES AND LOCATIONS OF PENETRATIONS CONTRACTOR TO VERIFY.
2. ALL PENETRATION SHALL BE IN SHOP DRAWINGS AND REVIEWED BY THE ENGINEER. NO PENETRATIONS SHALL BE MADE WITHOUT APPROVAL FROM ENGINEER.
3. R = 2x WEB THICKNESS OR 5/8" WHICHEVER IS GREATER.
4. FOR BEAM PENETRATION SCHEDULE REF. 7/S6.02.
5. FOR BOLTED CONNECTION REF. 4/S6.01.

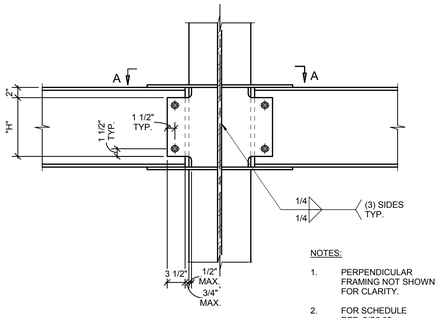
6 BEAM PENETRATION - REINFORCED
1" = 1'-0"



TYPICAL



SECTION A-A

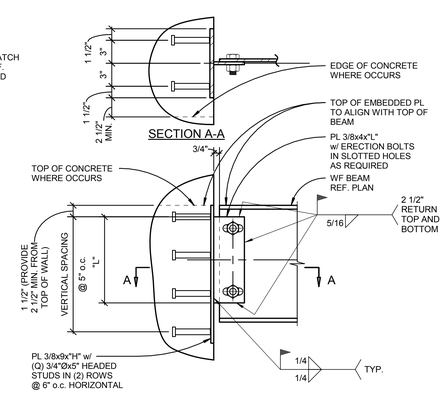


AT COLUMN WEB

NOTES:

1. PERPENDICULAR FRAMING NOT SHOWN FOR CLARITY.
2. FOR SCHEDULE REF. 2/S6.02.
3. FOR INFORMATION NOT SHOWN REF. TYPICAL DETAIL.

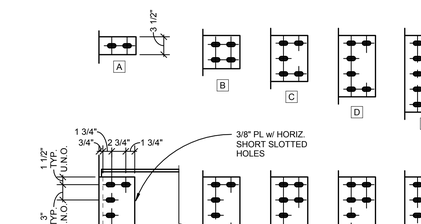
3 TYP. BEAM TO COLUMN MOMENT CONNECTION
1" = 1'-0"



TYP. SINGLE SHEAR PL AT CONCRETE WALL SCHEDULE			
CONNECTION TYPE	LENGTH "L"	EMBEDDED PL LENGTH "H"	NO. OF STUDS "Q"
2C	6"	11"	4
3C	9"	14"	6
4C	12"	18"	8
5C	15"	23"	10
6C	18"	28"	12
7C	21"	33"	14
8C	24"	38"	16
9C	27"	43"	18
10C	30"	46"	20

NOTE:
ALLOWABLE SHEAR PLATE TOLERANCE: ±1.5" VERTICAL AND 2" HORIZONTAL OFF PLATE CENTERLINE. CONTRACTOR TO INFORM ENGINEER WHEN SHEAR PLATE EXCEEDS ALLOWABLE TOLERANCES.

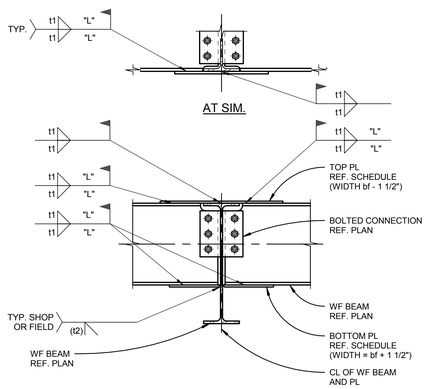
1 TYP. SINGLE SHEAR PLATE CONNECTION AT CONCRETE WALL
1 1/2" = 1'-0"



DOUBLE ROW SINGLE SHEAR PL CONNECTION SCHEDULE					
CONNECTION TYPE	BOLTS		PL LENGTH "L"	MIN. WEB "t" IF TOP FLANGE COPED	MIN. WEB "t" IF TOP AND BOTTOM FLANGE COPED
	1ST ROW	2ND ROW			
A	1	1	3 1/2"	.173	.202
B	2	2	6"	.187	.218
C	3	2	9"	-	.195
D	4	2	12"	-	-
E	5	2	15"	-	-
F	6	2	18"	-	-
G	7	3	21"	-	-
H	8	4	24"	-	-
J	9	4	27"	-	-
K	10	4	30"	-	-

NOTE:
* CAPACITY IS REDUCED BY FACTOR t/wt MIN. FOR tw < MIN. WEB t

4 DOUBLE ROW SINGLE SHEAR PL CONNECTION
1" = 1'-0"



TYP. BEAM TO BEAM MOMENT CONNECTION SCHEDULE						
BEAM SIZE	BOLTED CONNECTION TYPE	TOP PL THICKNESS x WIDTH	BOTTOM PL THICKNESS x WIDTH	WELD t1		WELD t2
				THICKNESS	LENGTH "L"	

2 TYP. BEAM TO BEAM MOMENT CONNECTION
1" = 1'-0"

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phase	Design Development
date	4/6/2018
revisions	
project #	17007

STEEL DETAILS

S6.02

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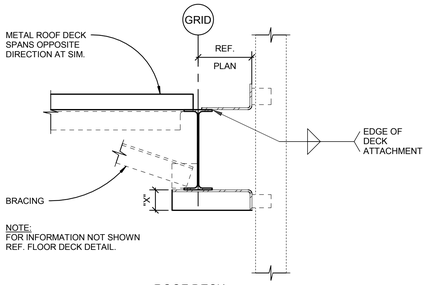
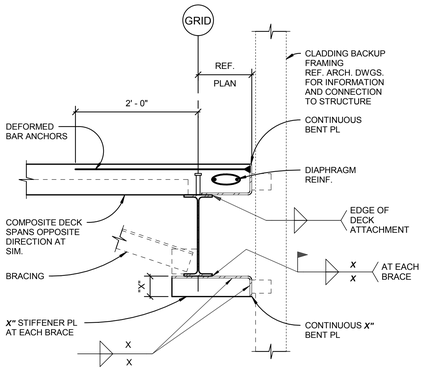


ROOF DECK



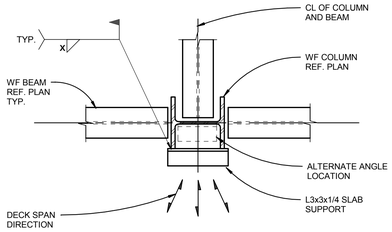
FLOOR DECK

NOTES:

1. FOR FLOOR EDGE OF DECK DETAIL REF. 2/S6.03.
2. FOR ROOF EDGE OF DECK DETAIL REF. 3/S6.03.
3. FOR BENT PL AT COLUMN REF. 8/S6.03.
4. FOR BRACING DETAIL REF. 1/S6.05.

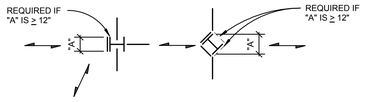
11 TYP. DECK EDGE w/ CLADDING SUPPORT

1" = 1'-0"



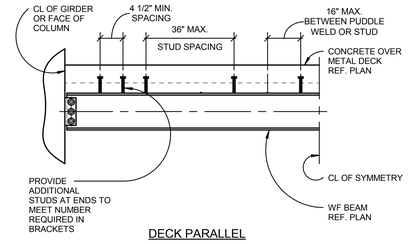
NOTES:

1. SLAB SUPPORT ANGLES ARE REQUIRED AT ALL COLUMN LOCATIONS WHERE THERE IS NO BEAM OR OTHER SUPPORT FOR SLAB AT COLUMN PENETRATION.
2. IN ADDITIONTO PERMANENET SLAB SUPPORT ANGLES, THE CONTRACTOR SHALL PROVIDE MISCELLANEOUS DECK SUPPORTS AT OTHER LOCATIONS REQUIRED TO MAINTAIN DECK LEVEL UNTIL CONCRETE CURES.
3. OTHER CONFIGURATIONS REQUIRING SLAB SUPPORT ANGLES INCLUDE, BUT ARE NOT LIINIMITED TO, THE FOLLOWING:

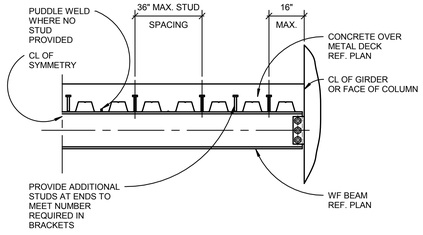


9 SLAB SUPPORT AT COLUMN

1" = 1'-0"



DECK PARALLEL



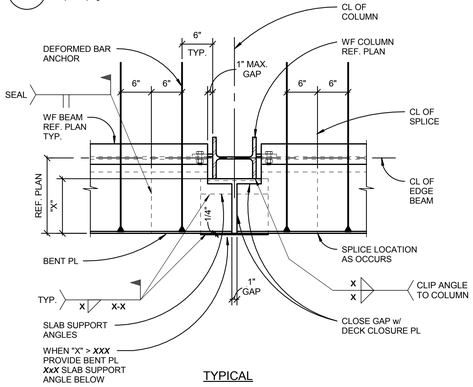
DECK PERPENDICULAR

NOTES:

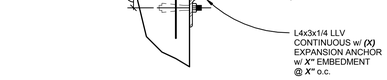
1. THE MINIMUM NUMBER OF STUDS REQUIRED IS SHOWN AS [X] ON THE FRAMING PLANS. [X-Y-Z] INDICATES NUMBER OF STUDS ON A GIRDER BETWEEN BEAM CONNECTION POINTS. NO STUDS ARE REQUIRED WHERE NO DESIGNATION IS GIVEN. ADDITIONAL STUDS MAY BE REQUIRED TO MEET THE ABOVE MAXIMUM SPACING REQUIREMENTS.
2. IF MULTIPLE STUDS ARE REQUIRED IN ONE FLUTE, THE TRANSVERSE SPACING SHALL BE 3" MINIMUM.

7 TYP. COMPOSITE BEAM STUD SPACING DETAIL

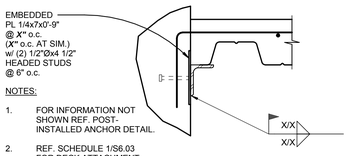
1" = 1'-0"



TYPICAL



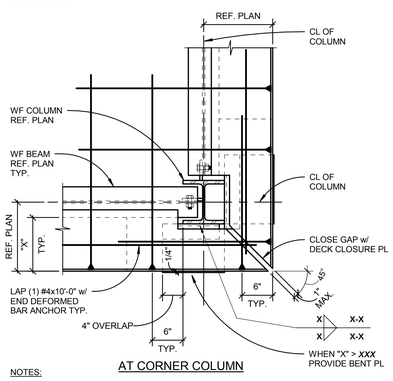
POST-INSTALLED ANCHOR



EMBEDMENT

10 DECKING LEDGER SUPPORT ANGLE

1 1/2" = 1'-0"



AT CORNER COLUMN

NOTES:

1. FOR INFORMATION NOT SHOWN AT CORNER COLUMN REF. TYPICAL DETAIL.
2. FOR FLOOR EDGE OF DECK DETAIL REF. 2/S6.03.
3. FOR ROOF DECK OF DECK EDGE DETAIL REF. 3/S6.03.
4. FOR SLAB SUPPORT ANGLE DETAIL REF. 9/S6.03.

8 DECK EDGE DETAIL AT COLUMN

1" = 1'-0"



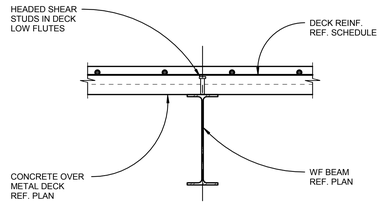
FLOOR AND ROOF DECK SCHEDULE							
DECK DESIGNATION	DECK TYPE	CONC. TOPPING THICKNESS	CONCRETE TOPPING STRENGTH	SLAB REINFORCING	CONNECTIONS		
					AT SUPPORT MEMBERS	AT PARALLEL MEMBERS	AT SIDE LAPS
D-X	X"-X GA.				NOTE 3	NOTE 3	
D-X							
D-X							
D-X							

NOTES:

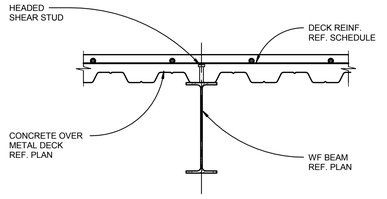
1. REF. GENERAL STRUCTURAL NOTES FOR BASIS OF DESIGN DECK PROPERTIES.
2. REF. GENERAL STRUCTURAL NOTES FOR CONCRETE STRENGTH AT FLOOR DECK.
3. WELDED HEADED STUDS PER DRAWINGS MAY BE PROVIDED IN LIEU OF DECK WELDS INDICATED.

1 FLOOR AND ROOF DECK SCHEDULE

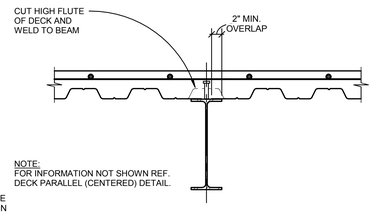
1" = 1'-0"



DECK PERPENDICULAR



DECK PARALLEL (CENTERED)



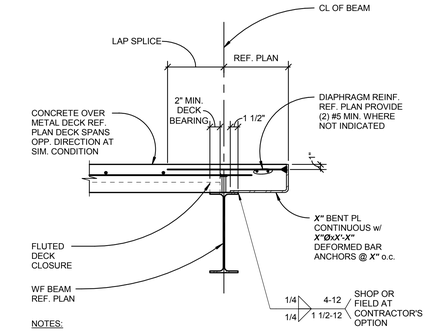
NOTE:
FOR INFORMATION NOT SHOWN REF. DECK PARALLEL (CENTERED) DETAIL.

DECK PARALLEL (OFF-CENTER)

NOTE:
REF. SCHEDULE 1/S6.03 FOR DECK ATTACHMENT AND SLAB REINFORCING.

5 TYP. FLOOR DECK TO BEAM DETAIL

1" = 1'-0"

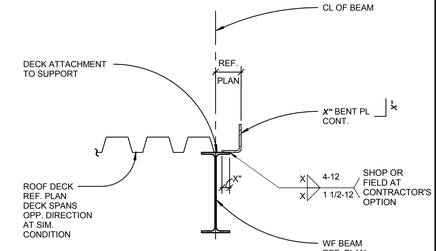


NOTES:

1. REF. GENERAL STRUCTURAL NOTES FOR LAP SPLICE LENGTH.
2. REF. SCHEDULE 1/S6.03 FOR DECK ATTACHMENT.

2 TYP. EDGE OF DECK DETAIL

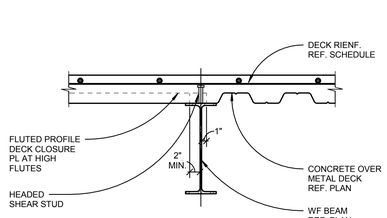
1" = 1'-0"



NOTE:
REF. SCHEDULE 1/S6.03 FOR DECK ATTACHMENT.

3 TYP. EDGE OF ROOF DECK DETAIL

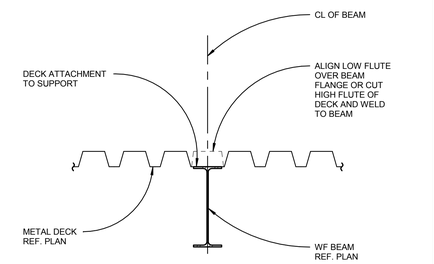
1" = 1'-0"



NOTE:
REF. SCHEDULE 1/S6.03 FOR DECK ATTACHMENT AND SLAB REINFORCING.

6 DETAIL AT DECK DISCONTINUITY

1" = 1'-0"



NOTE:
REF. SCHEDULE 1/S6.03 FOR DECK ATTACHMENT.

4 TYP. ROOF DECK TO BEAM DETAIL

1" = 1'-0"

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phase	Design Development
date	4/6/2018
revisions	
project #	17007

STEEL DETAILS

S6.03

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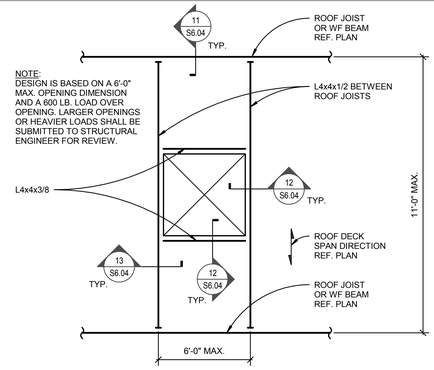
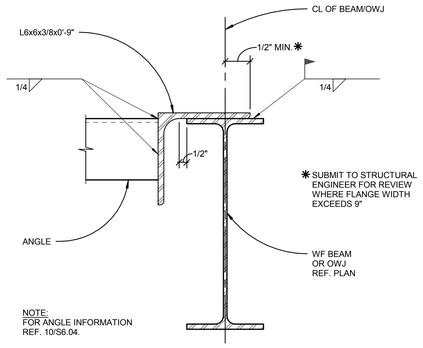


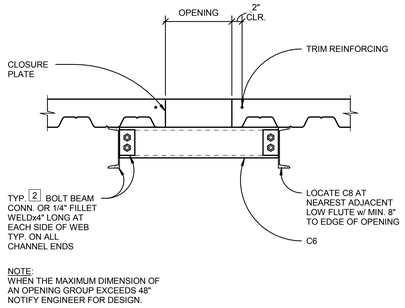
TYP. FRAMING AT ROOF DECK OPENING

10 — 1" = 1'-0"

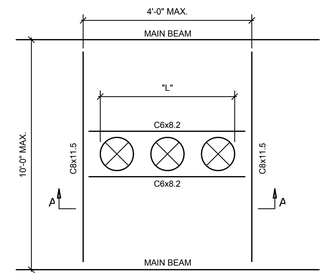


TYP. FRAMING AT ROOF DECK OPENING

11 — 3" = 1'-0"



SECTION A-A



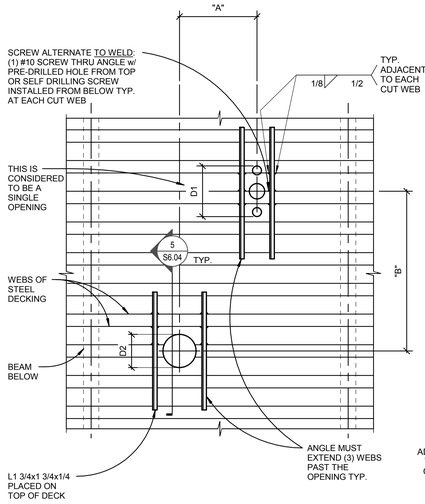
NOTES:

1. FOR TRIM REINFORCING REF. 3/S6.04.
2. FOR CLOSURE PLATE REF. 1/S6.04.
3. IF "L" <24 CONSIDER THE COMBINED HOLES AS ONE AND STRENGTHEN REF. 4/S6.04.
4. AT (E) FLOOR DECKS FASTEN CHANNEL FLANGES w/ 3/8"Øx2 1/2" EMBEDMENT ANCHORS @ 24" o.c. TYP.

PARTIAL FRAMING PLAN

COMPOSITE DECK REINFORCING AT 48" MAX. FORMED OPENINGS

8 — 1" = 1'-0"

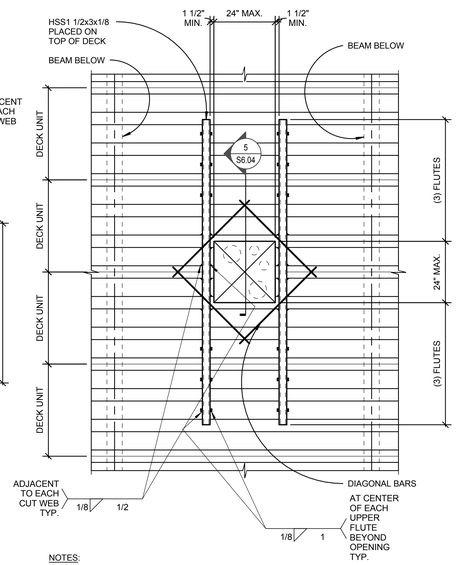


NOTES:

1. HOLES 6"Ø AND LESS LOCATED AT RANDOM OR 13"Ø AND LESS CENTERED ON DECK LOW FLUTES DO NOT REQUIRE REINFORCING. REF. 2/S6.04
2. PRIOR TO CONCRETE POUR, OPENINGS SHALL BE BLOCKED OUT w/ DECK LEFT INTACT. AFTER CONCRETE HAS CURED THE BLOCK OUT MAY BE REMOVED AND THE DECK CUT OUT TO THE EDGE OF THE CONCRETE POUR.
3. THE CONTRACTOR SHALL REINFORCE OR SHORE THE DECK AS REQUIRED TO SUPPORT LOADS DURING CONCRETE PLACEMENT.
4. IF DIMENSION "A" IS GREATER THAN 4D1, 4D2 OR 32" WHICHEVER IS LARGER THEN THERE IS NO RESTRICTION ON DIMENSION "B".
5. IF DIMENSION "B" IS GREATER THAN 4D1, 4D2 OR 32" WHICHEVER IS LARGER THEN THERE IS NO RESTRICTION ON DIMENSION "A".
6. IF DIMENSION "A" AND "B" ARE LESS THAN 4D1, 4D2 OR 32" WHICHEVER IS LARGER, THE OPENING GROUP WILL BE CONSIDERED AS A SINGLE HOLE, AND MUST BE REINFORCED AS REQUIRED FOR THE LARGER OPENING.

COMPOSITE DECK REINFORCING AT PENETRATIONS < 13" DIA OR LESS

6 — 1" = 1'-0"

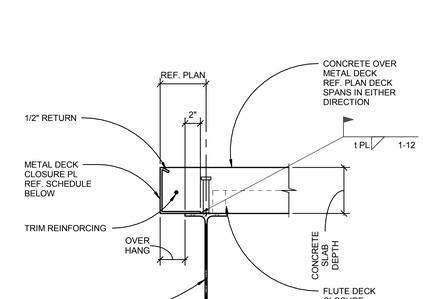


NOTES:

1. REF. 6/S6.04 FOR DIMENSION REQUIREMENTS WHERE ADJACENT HOLES MUST BE CONSIDERED AS ONE OPENING.
2. IF THE OPENING OR GROUP OF OPENINGS OCCURS IN ONE DECKING UNIT, THE OPENING OR OPENING GROUP MAY BE CUT PRIOR TO POURING OF CONCRETE.
3. IF, AS SHOWN IN THE DETAIL ABOVE, THE OPENING OR OPENING GROUP CUTS THROUGH TWO DECK UNITS, THE DECKING SHALL NOT BE CUT UNTIL CONCRETE HAS BEEN PLACED AND CURED.
   a. AT THE TIME OF POURING, SUITABLE SLEEVES OR BULKHEADS SHALL BE PLACED AROUND THE OPENING.
4. WHEN THE MAXIMUM DIMENSION OF AN OPENING OR OPENING GROUP EXCEEDS 24", PLACE HEADER BEAMS AROUND OPENING, NOTIFY ENGINEER FOR DESIGN.
5. FOR DIAGONAL BAR REINFORCING REF. 3/S6.04.
6. FOR OPENING LARGER THAN THOSE SHOWN REF. 8/S6.04 FOR DECK REINFORCING REQUIREMENTS U.N.O.

COMPOSITE DECK REINFORCING AT PENETRATIONS > 13" DIA

4 — 1" = 1'-0"



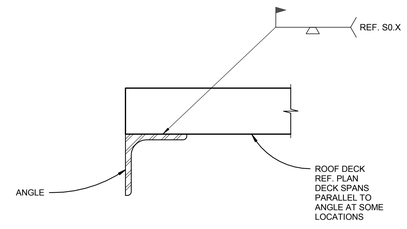
NOTES:

1. WHERE CLADDING, GUARDRAIL, ELEVATOR RAILS OR OTHER ATTACHMENT AT SLAB EDGE OCCUR. REF. TYP. EDGE OF DECK DETAIL 2/S6.03 U.N.O.
2. FOR TRIM REINFORCING REF. 3/S6.04.

EDGE FORM GAUGE			
SLAB DEPTH (IN.)	OVERHANG (IN.)		
	≤4	≤8	≤10
≤5 1/2	16	10	10
≤6 1/2	14	10	-
≤7 1/2	14	10	-

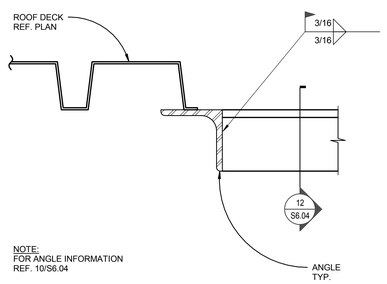
EDGE OF DECK DETAIL

1 — 1 1/2" = 1'-0"



TYP. DETAIL AT ROOF DECK OPENING

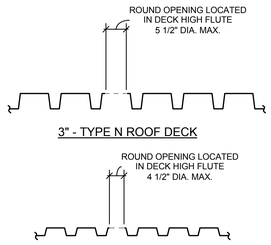
12 — 3" = 1'-0"



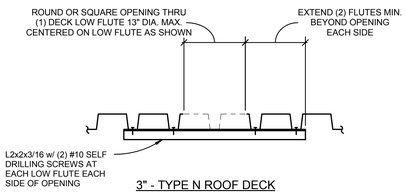
TYP. FRAMING AT ROOF DECK OPENING

13 — 3" = 1'-0"

OPENINGS WITHOUT REINFORCING:



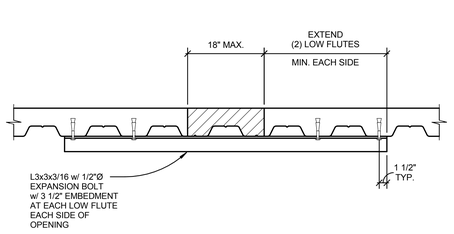
REINFORCED OPENINGS:



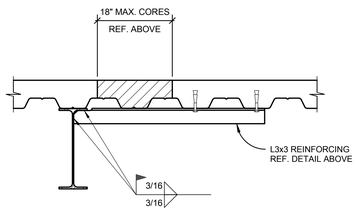
NOTE:
REF. 10/S6.04 FOR SUB FRAMING AT OPENINGS LARGER THAN THOSE SHOWN OR OPENINGS THROUGH MORE THAN (1) DECK LOW FLUTE.

TYP. ROOF DECK REINFORCING AT HOLES

9 — 1" = 1'-0"



REINFORCING AT CORES TO 18" MAX.



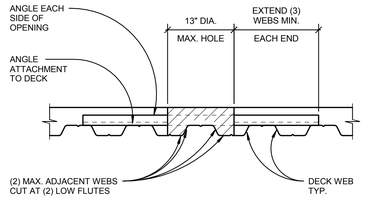
ANGLE REINFORCING AT WF CONFLICT

NOTES:

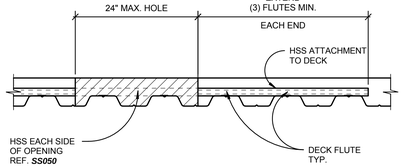
1. REF. 6/S6.04 FOR DIMENSION REQUIREMENTS WHERE ADJACENT HOLES MUST BE CONSIDERED AS ONE OPENING.
2. REF. 2/S6.04 FOR CORES TO 13" MAX. CENTERED ON DECK LOW FLUTE AND 6"Ø MAX. CORES LOCATED AT RANDOM.

TYP. POST-INSTALLED DECK REINFORCING AT HOLES

7 — 1" = 1'-0"



REINFORCING AT HOLES GREATER THAN 6" TO 13" MAX.
LOCATED w/ IMPACTS TO (2) ADJACENT LOW FLUTES



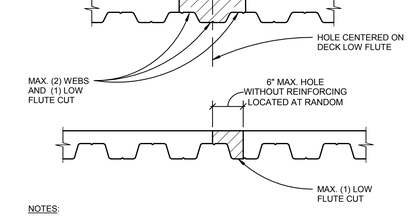
REINFORCING AT HOLES 13" TO 24" MAX.

NOTES:

1. REF. 4/S6.04 AND 6/S6.04 FOR CRITERIA ON DECK CUTTING PRIOR TO POUR OR AFTER CONCRETE CURING.
2. FOR HSS ATTACHMENT TO DECK REF. 4/S6.04.
3. FOR ANGLE ATTACHMENT TO DECK REF. 6/S6.04.

TYP. DECK REINFORCING AT HOLES

5 — 1" = 1'-0"

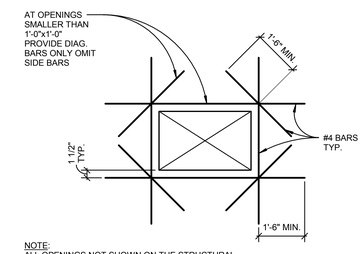


NOTES:

1. REF. 4/S6.04 AND 6/S6.04 FOR OPENINGS THAT DO NOT MEET THE REQUIREMENTS OF THIS DETAIL. REINFORCE ALL OPENINGS THAT IMPACT (2) ADJACENT LOW FLUTES.
2. REF. 6/S6.04 FOR DIMENSION REQUIREMENTS WHERE ADJACENT HOLES MUST BE CONSIDERED AS ONE OPENING.
3. OPENINGS THAT MEET THE REQUIREMENTS OF THIS DETAIL MAY BE FORMED PRIOR TO CONCRETE POUR OR CORE DRILLED AFTER PLACEMENT.

MAXIMUM ALLOWABLE DECK OPENING WITHOUT REINFORCING

2 — 1" = 1'-0"



NOTE:
ALL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS THAT ARE LARGER THAN 1'-0" SQUARE AND ALL MULTIPLE HOLES SPACED CLOSER THAN 3x LARGEST OPENING DIMENSION, SHALL BE SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER.

TYP. REINFORCING AT CONC. OVER METAL DECK OPENING

3 — 1" = 1'-0"

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phase	Design Development
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revisions	
project #	17007

STEEL DETAILS

S6.04

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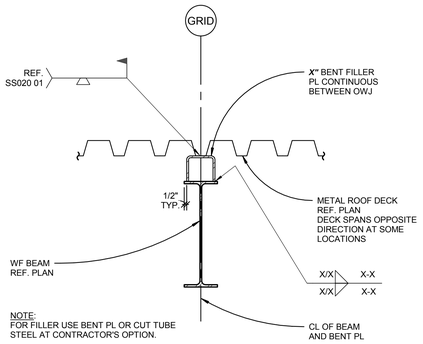
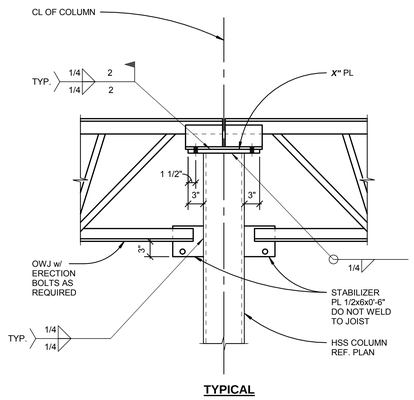
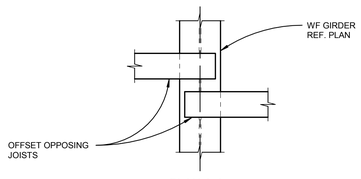


11 TYP. ROOF DECK DRAG CONNECTION AT OWJ FRAMING

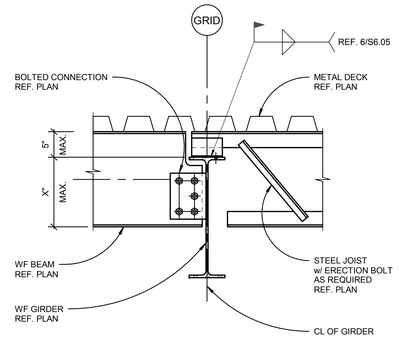
1" = 1'-0"



TYPICAL

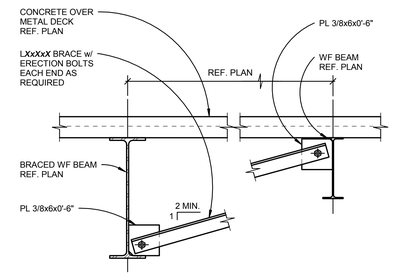


PLAN A-A

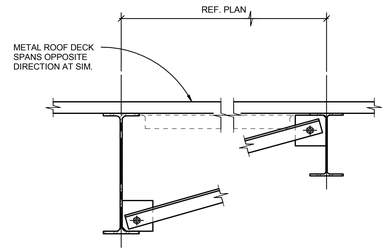


4 TYP. JOIST/BEAM TO GIRDER CONNECTION

1" = 1'-0"



AT COMPOSITE DECK



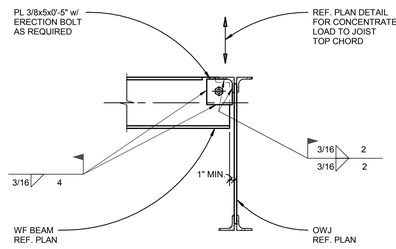
AT ROOF DECK

NOTES:

1. REF. ◀▶ DESIGNATION ON FRAMING PLANS FOR BRACE LOCATIONS.
2. FOR INFORMATION NOT SHOWN REF. DETAIL AT COMPOSITE DECK.

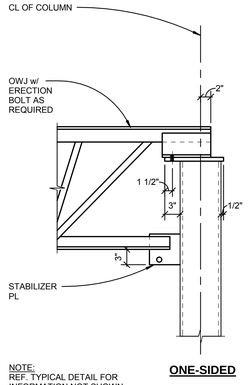
1 TYP. DIAGONAL BRACING AT WF BEAM

1" = 1'-0"



12 TYP. WF CONNECTION TO ROOF AT OWJ'S

1" = 1'-0"

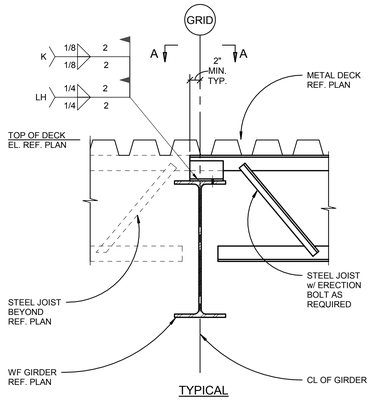


ONE-SIDED

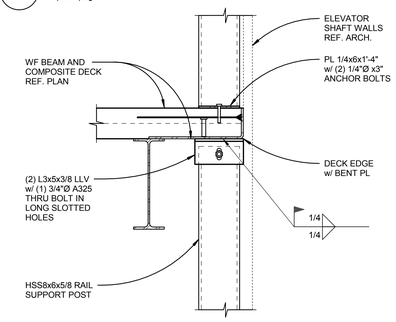
NOTE: REF. TYPICAL DETAIL FOR INFORMATION NOT SHOWN.

8 TYP. JOIST CONNECTION AT COLUMN

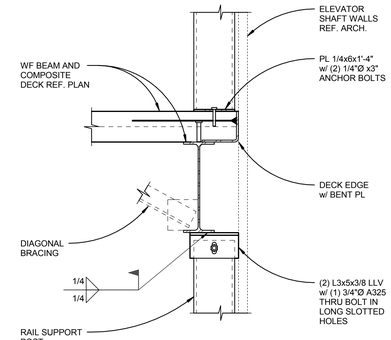
1" = 1'-0"



TYPICAL



TYPICAL FRAMING STOPS

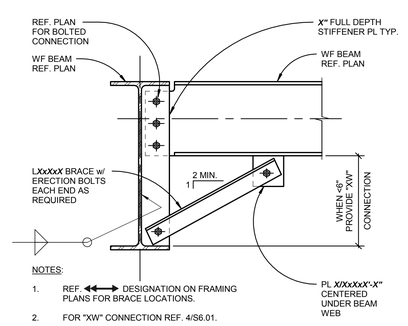


NOTE: FOR INFORMATION NOT SHOWN REF. TYPICAL DETAIL.

TYPICAL FRAMING STOPS BELOW BEAM

NOTES:

1. FOR DECK EDGE REF. 2/S6.03.
2. FOR DIAGONAL BRACING REF. 1/S6.05.

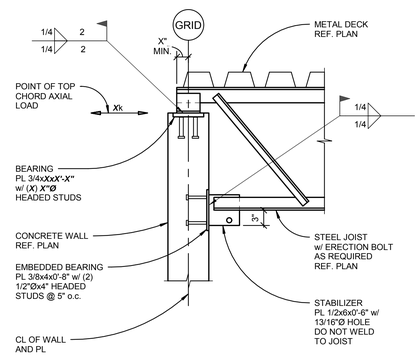


NOTES:

1. REF. ◀▶ DESIGNATION ON FRAMING PLANS FOR BRACE LOCATIONS.
2. FOR "XW" CONNECTION REF. 4/S6.01.

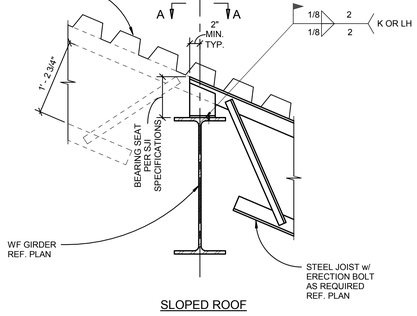
2 TYP. BOTTOM FLANGE BRACE AT WF BEAM

1" = 1'-0"



9 TYP. JOIST TO WALL CONNECTION

1" = 1'-0"



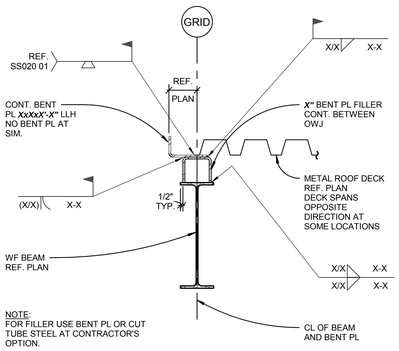
SLOPED ROOF

6 TYP. JOIST TO GIRDER CONNECTION

1" = 1'-0"

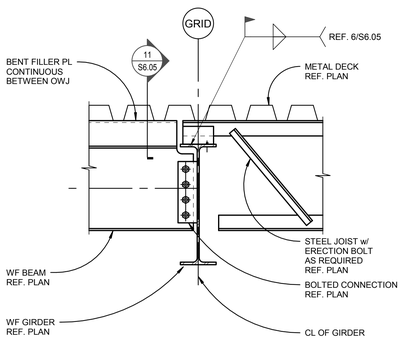
5 ELEVATOR RAIL SUPPORT FRAMING

1" = 1'-0"



10 TYP. ROOF DECK EDGE AT OWJ FRAMING

1" = 1'-0"



7 TYP. JOIST/BEAM TO GIRDER CONNECTION

1" = 1'-0"

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STEEL DETAILS

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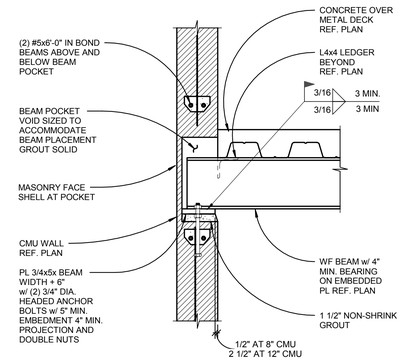
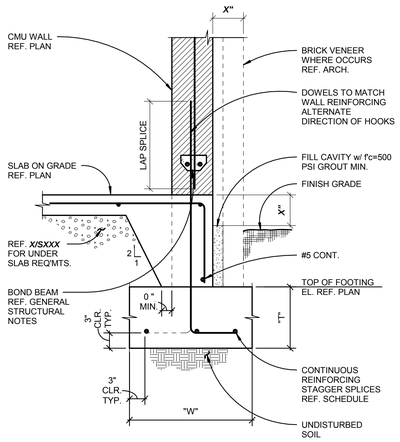


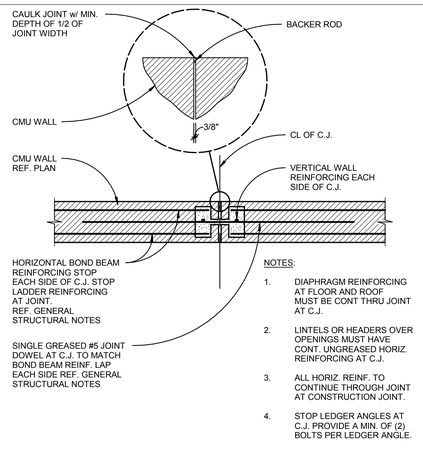
11 TYPICAL WF BEAM TO CMU WALL CONNECTION

1" = 1'-0"



TYP. EXTERIOR STRUCTURAL CMU WALL FOOTING

7 1" = 1'-0"

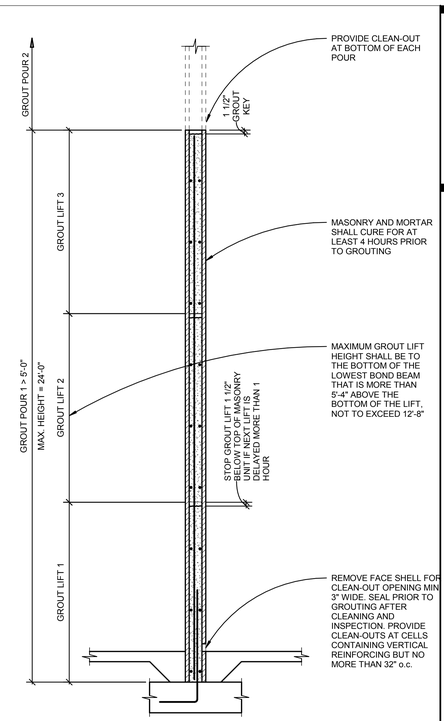


NOTES:

1. DIAPHRAGM REINFORCING AT FLOOR AND ROOF MUST BE CONT THRU JOINT AT C.J.
2. LINTELS OR HEADERS OVER OPENINGS MUST HAVE CONT. UNGREASED HORIZ. REINFORCING AT C.J.
3. ALL HORIZ. REINF. TO CONTINUE THROUGH JOINT AT CONSTRUCTION JOINT.
4. STOP LEDGER ANGLES AT C.J. PROVIDE A MIN. OF (2) BOLTS PER LEDGER ANGLE.

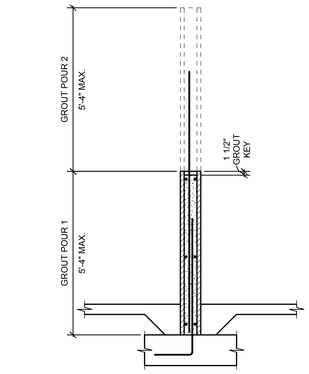
3 TYP. CONTROL JOINT DETAIL

1" = 1'-0"



HIGH LIFT GROUTING

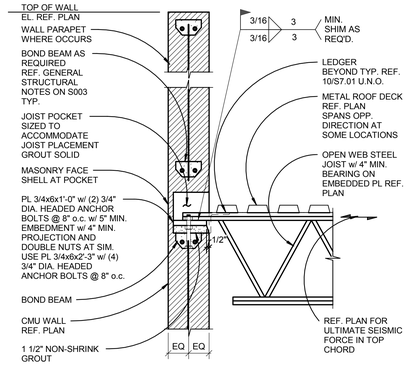
NOTE:
GROUT MUST BE CONSOLIDATED WITH A MECHANICAL VIBRATOR AND RECONSOLIDATED AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.



LOW LIFT GROUTING

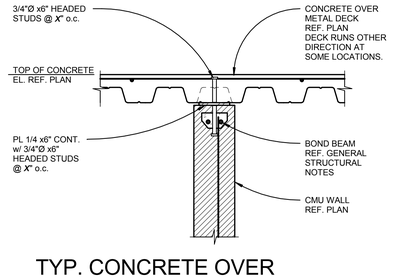
1 TYP. MASONRY GROUTING DETAIL

1/2" = 1'-0"



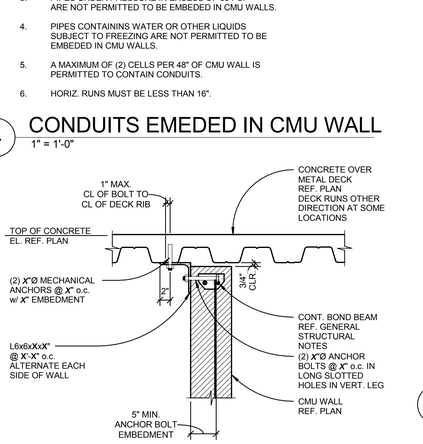
12 TYPICAL OWJ TO CMU WALL CONN.

1" = 1'-0"



8 TYP. CONCRETE OVER METAL DECK TO CMU WALL

1" = 1'-0"



4 CONDUITS EMEDED IN CMU WALL

1" = 1'-0"

NOTES:

1. ALUMINUM CONDUITS ARE NOT PERMITTED.
2. PIPES CONTAINING LIQUID, GAS OR VAPOURS AT TEMPERATURES HIGHER THAN 150 ° F ARE NOT PERMITTED TO BE EMBEDED INTO CMU WALLS.
3. PIPES UNDER PRESSURE IN EXCESS OF 55 PSI ARE NOT PERMITTED TO BE EMBEDED IN CMU WALLS.
4. PIPES CONTAINING WATER OR OTHER LIQUIDS SUBJECT TO FREEZING ARE NOT PERMITTED TO BE EMBEDED IN CMU WALLS.
5. A MAXIMUM OF (2) CELLS PER 48" OF CMU WALL IS PERMITTED TO CONTAIN CONDUITS.
6. HORIZ. RUNS MUST BE LESS THAN 16".

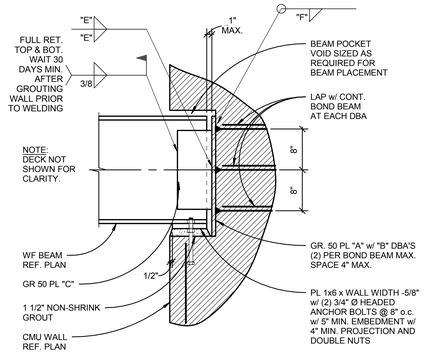
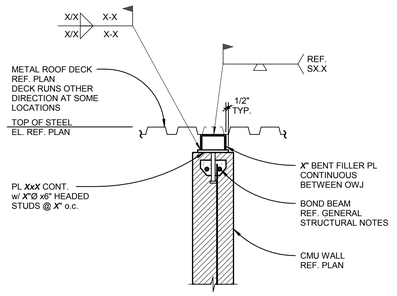


	PLATE "A" (TxWxH)	DBA'S "B"	KNIFE PLATE "C" (TxWxH)	WELD "D"	WELD "E"	WELD "F"	ULTIMATE CAPACITY
A	1 1/8"x6"x19"	(6) #7x5'-3	5/8"x8"x12"	7"	7/16"	1/2"	150K
B	1 1/4"x6"x27"	(8) #8x6'-0"	5/8"x13"x14"	12"	1/2"	9/16"	275K
C	1"x6"x11"	(4) #7x5'-3"	5/8"x8"x7"	7"	7/16"	1/2"	130K

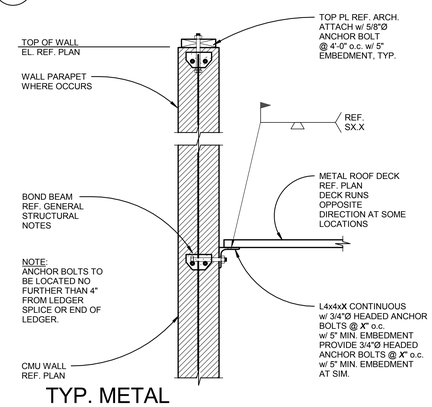
13 TYP. WF DRAG STRUT TO CMU WALL

1" = 1'-0"



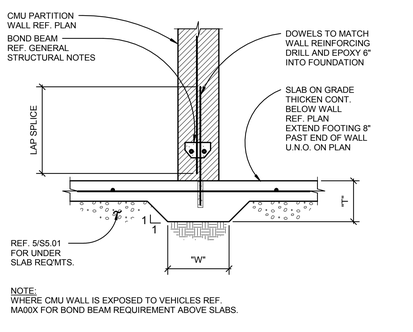
9 TYP. METAL ROOF DECK CONNECTION BETWEEN OWJ

1" = 1'-0"



10 TYP. METAL ROOF DECK TO CMU WALL

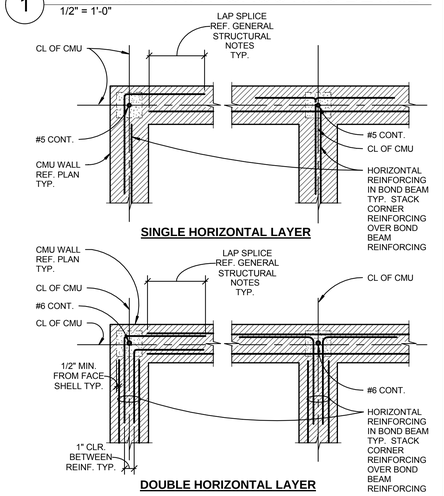
1" = 1'-0"



NOTE:
WHERE CMU WALL IS EXPOSED TO VEHICLES REF. MA00X FOR BOND BEAM REQUIREMENT ABOVE SLABS.

6 TYP. NON-STRUCTURAL CMU WALL FOUNDATION

1" = 1'-0"



DOUBLE HORIZONTAL LAYER

SINGLE HORIZONTAL LAYER

2 TYP. CMU WALL CORNER PLAN DETAILS

1" = 1'-0"

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phase	Design Development
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CMU DETAILS

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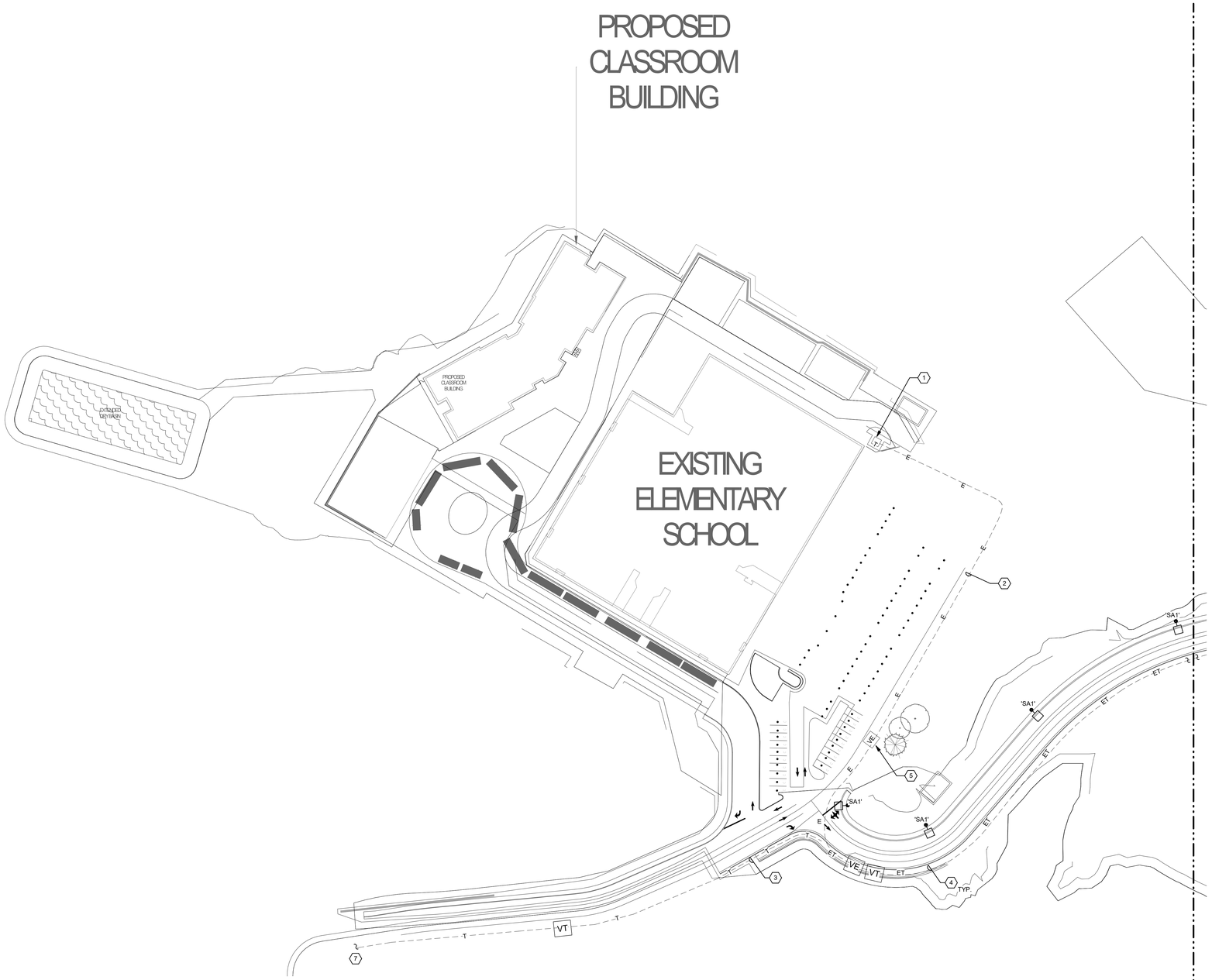

1 SITE PLAN SECTOR 1 - ELECTRICAL

0' 4' 8' 16'
1" = 50'-0"

NORTH

GENERAL SHEET NOTES

A PROVIDE #8 AWG MINIMUM FOR ALL SITE LIGHTING CONDUCTORS IN THIS SECTOR OF SITE PLAN UNLESS OTHERWISE NOTED.

SHEET KEYNOTES

1 PROVIDE UTILITY VAULT 660-PACIFICORP PULL VAULT BY EXISTING UTILITY TRANSFORMER AT SEASIDE HEIGHTS ELEMENTARY TO INTERCEPT AND EXTEND PRIMARY TO HIGH SCHOOL.

2 PROVIDE TWO 6-INCH CONDUITS FOR PRIMARY POWER FROM SEASIDE HEIGHT ELEMENTARY TO HIGH SCHOOL AND FUTURE RESERVOIR.

3 PROVIDE TWO 2-INCH CONDUITS FOR TELECOM (CENTURYLINK), ONE 2-INCH CONDUIT FOR SCADA (CITY OF SEASIDE WATER DEPT.) AND ONE 2-INCH CONDUIT FOR FUTURE TELECOM.

4 COORDINATE ROUTING OF POWER AND TELECOM CONDUITS, AND PLACEMENT OF VAULTS, ALONG SOUTH SIDE OF NEW ROADWAY, BETWEEN CURB EDGE AND RETAINING WALLS TO THE SOUTH. REFER TO CIVIL PLANS FOR EXACT LOCATIONS.

5 PROVIDE UTILITY VAULT 660-PACIFICORP SERIES PULL VAULT FOR PRIMARY POWER.

6 PROVIDE ADJACENT TELECOM VAULTS: UTILITY VAULT 264-TA FOR TELECOM, ONE FOR CENTURYLINK AND ONE FOR CITY OF SEASIDE/FUTURE TELECOM UTILITY.

7 EXTEND (2) 2-INCH CONDUITS TO CENTURY LINK TIE IN POINT AT NW CORNER OF SPRUCE AND ALDER. CONNECT (1) 2-INCH CONDUIT TO CITY OF SEASIDE VAULT FOR MUNICIPAL FIBER OPTIC FOR WATER DEPARTMENT SCADA SYSTEM. STUB AND CAP REMAINING 2-INCH CONDUIT FOR FUTURE USE.

Incoming Electrical Service Division of Responsibility

	Contractor	Utility
Primary Conduit	X	
Primary Conductors		X
Trenching and Backfill	X	
Transformer		X
Transformer Pad / Vault	X	
Bollards	X	
Transformer Connections		X
Secondary Conduit	X	
Secondary Conductors		X
C/T Enclosure	X	
C/T's		X
Meter Base	X	
Meter		X
Electric Room Door Lock Box (obtain from power company)	X	
Reported Fault Current at Transformer:		N/A

Contacts:

Power Utility:
Marilyn Brockey
Pacific Power
Marilyn.Brockey@pacificorp.com
Clatsop Operations
Phone: (503)861-6005
Fax: ( )

Telephone Utility:
Century Link
Michael Meisner
Email: Michael.Meisner@CenturyLink.com
Email: Jennifer.Bowen@CenturyLink.com

Cable T.V. Utility:
City of Seaside SCADA Fiber Optic
City Engineer: Geoffrey Liljenwall
Email: gliljenwall@cityofseaside.us

Notes:
1. Contact and coordinate all requirements and responsibilities with serving utility companies prior to submitting bid.

2. All service installation work shall be in strict compliance with the requirements of the serving utilities.

Disclaimer: Interface Engineering, Inc. has contacted the utilities but has not received in writing the final requirements from the [power utility] [telephone utility] [CATV utility]. These drawings indicate our best estimation of their requirements. [Prior to bid] [Prior to any construction] contact the utilities and obtain in writing their requirements.

PROJECT 2017-0257
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REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY
EXPIRES: 12/31/19

key plan

phase	Design Development
date	4/6/2018
revisions	
project #	17007

SITE PLAN SECTOR 1 - ELECTRICAL

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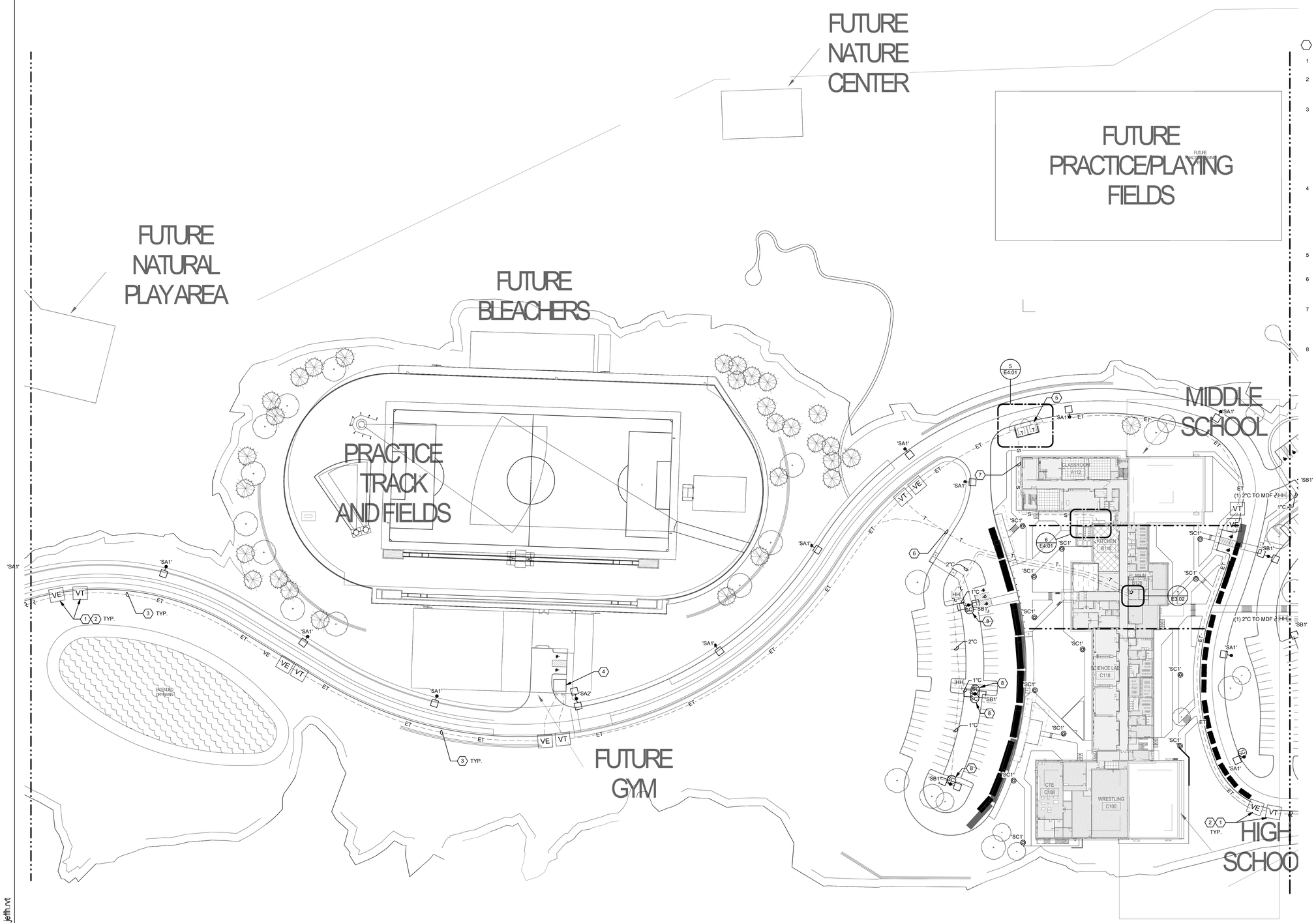
GENERAL SHEET NOTES

A PROVIDE #8 AWG MINIMUM FOR ALL SITE LIGHTING CONDUCTORS IN THIS SECTOR OF SITE PLAN UNLESS OTHERWISE NOTED.



SHEET KEYNOTES

1 PROVIDE UTILITY VAULT 660-PACIFICORP SERIES PULL VAULT FOR PRIMARY POWER.

2 PROVIDE ADJACENT TELECOM VAULTS: UTILITY VAULT 264-TA FOR TELECOM, ONE FOR CENTURYLINK AND ONE FOR CITY OF SEASIDE/FUTURE TELECOM UTILITY.

3 COORDINATE ROUTING OF POWER AND TELECOM CONDUITS, AND PLACEMENT OF VAULTS, ALONG SOUTH SIDE OF NEW ROADWAY, BETWEEN CURB EDGE AND RETAINING WALLS TO THE SOUTH. REFER TO CIVIL PLANS FOR EXACT LOCATIONS. PROVIDE TWO 6-INCH CONDUITS FOR PRIMARY POWER FROM SEASIDE HEIGHT ELEMENTARY TO HIGH SCHOOL AND FUTURE RESERVOIR. PROVIDE TWO 2-INCH CONDUITS FOR TELECOM (CENTURYLINK), ONE 2-INCH CONDUIT FOR SCADA (CITY OF SEASIDE WATER DEPT.) AND ONE 2-INCH CONDUIT FOR FUTURE TELECOM.

4 PROVIDE CONCRETE PAD FOR 25KVA UTILITY TRANSFORMER, 200-AMP, 240/120-VOLT METER PEDESTAL WITH (6) 20A/1P OUTPUT CIRCUIT BREAKERS AND ADJACENT 4-RELAY LIGHTING RELAY PANEL WITH PHOTOCELL FOR CONTROL OF ROADSIDE LIGHTING FROM SEASIDE HEIGHTS ELEMENTARY TO WEST EDGE OF WEST PARKING BY HIGH SCHOOL. ROUTE (1) 2-INCH CONDUIT FOR FUTURE TELECOM AND STUB BY METER PEDESTAL.

5 COORDINATE PLACEMENT OF UTILITY TRANSFORMERS WITH LANDSCAPE PLANS, AND PACIFICORP, PRIOR TO ROUGH-IN.

6 IN SHARED TRENCH, PROVIDE TWO 2-INCH CONDUITS FOR TELECOM (CENTURYLINK) AND ONE 2-INCH CONDUIT FOR FUTURE TELECOM, ROUTED TO MAIN TELECOM ROOM (MDF).

7 ROUTE (6) 6-INCH CONDUITS FOR SECONDARY CONDUITS FROM EACH TRANSFORMER TO EACH OF TWO UTILITY METER ENCLOSURES (SEE DETAIL 8/E4.01). PROVIDE 2-INCH RED-DYE INJECTED CONCRETE ENCASEMENT FOR SECONDARY CONDUITS.

8 CONDUIT TO TERMINATE IN CURVED LID JBOX WITHIN THE LIGHTPOLE BASE. INSTALL LIQUID TIGHT FLEX FROM THE JBOX TO THE CAMERA LOCATION.

1 SITE PLAN SECTOR 2 - ELECTRICAL

0' 4' 8' 16'
1" = 50'-0"

NORTH

BR|IC ARCHITECTURE, INC.
1233 NW NORTHRUP STREET, SUITE 100
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REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY
NORMAN CHESLEY
EXPIRES: 12/31/19

key plan

phase	Design Development
date	4/6/2018
revisions	
project #	17007

SITE PLAN SECTOR 2 - ELECTRICAL

E1.12

PROJECT 2017-0257
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www.interfaceengineering.com

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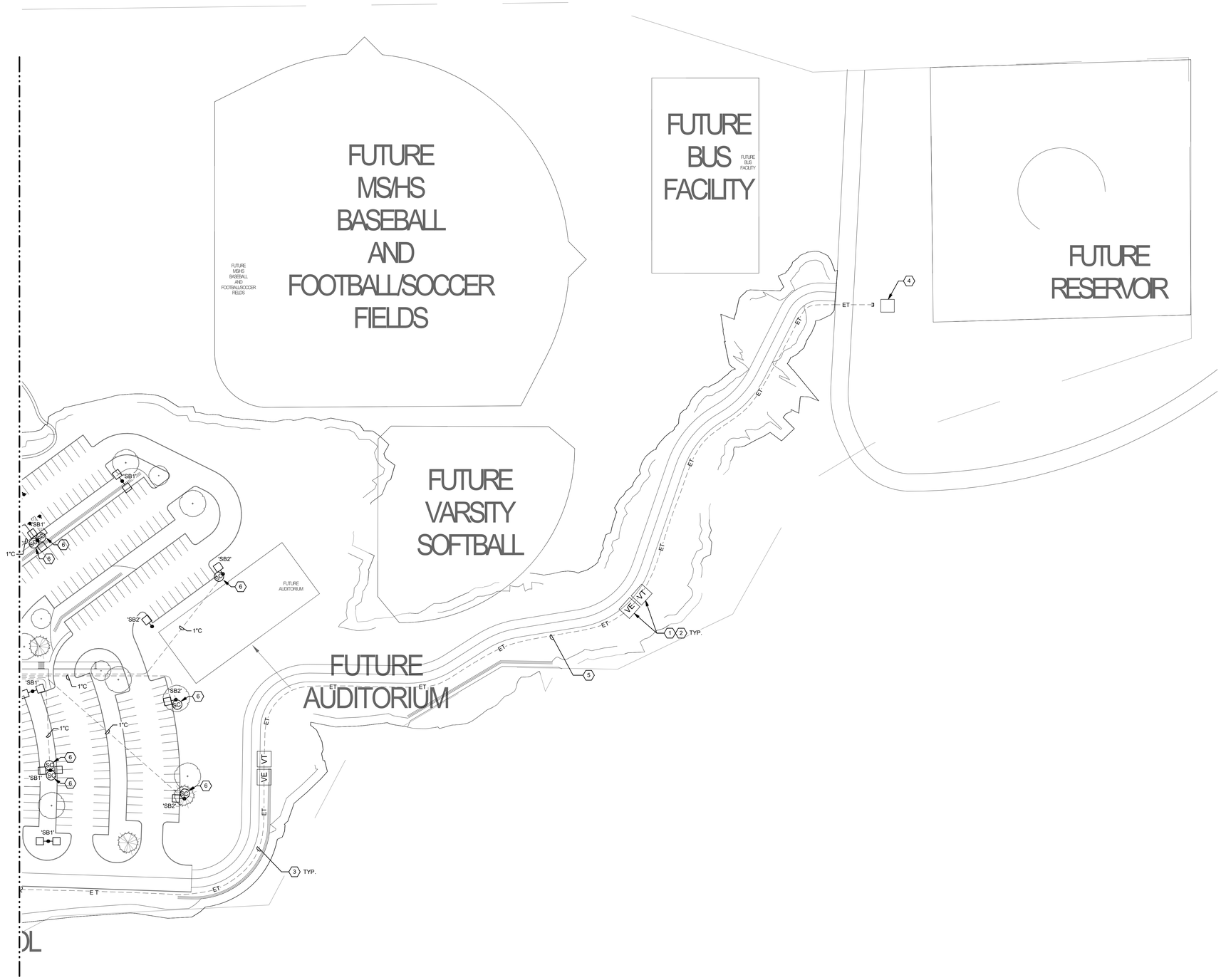

1 SITE PLAN SECTOR 3 - ELECTRICAL

0' 4' 8' 16'
1" = 50'-0"

GENERAL SHEET NOTES

A PROVIDE #8 AWG MINIMUM FOR ALL SITE LIGHTING CONDUCTORS IN THIS SECTOR OF SITE PLAN UNLESS OTHERWISE NOTED.

SHEET KEYNOTES

1 PROVIDE UTILITY VAULT 660-PACIFICORP SERIES PULL VAULT FOR PRIMARY POWER.

2 PROVIDE ADJACENT TELECOM VAULTS: UTILITY VAULT 264-TA FOR TELECOM, ONE FOR CENTURYLINK AND ONE FOR CITY OF SEASIDE/FUTURE TELECOM UTILITY.

3 COORDINATE ROUTING OF POWER AND TELECOM CONDUITS, AND PLACEMENT OF VAULTS, ALONG SOUTH SIDE OF NEW ROADWAY, BETWEEN CURB EDGE AND RETAINING WALLS TO THE SOUTH. REFER TO CIVIL PLANS FOR EXACT LOCATIONS. PROVIDE TWO 6-INCH CONDUITS FOR PRIMARY POWER FROM SEASIDE HEIGHT ELEMENTARY TO HIGH SCHOOL AND FUTURE RESERVOIR. PROVIDE TWO 2-INCH CONDUITS FOR TELECOM (CENTURYLINK), ONE 2-INCH CONDUIT FOR SCADA (CITY OF SEASIDE WATER DEPT.) AND ONE 2-INCH CONDUIT FOR FUTURE TELECOM.

4 PROVIDE CONCRETE PAD FOR 75KVA UTILITY TRANSFORMER, 400-AMP, 480/277-VOLT NEMA 3R SWITCHGEAR WITH 400A/3P MAIN BREAKER FOR RESERVOIR PUMP HOUSE. ROUTE (1) 2-INCH CONDUIT FOR CITY OF SEASIDE SCADA FIBER OPTIC, AND (1) 2"C. FOR FUTURE TELECOM AND STUB BY METER PEDESTAL.

5 COORDINATE ROUTING OF POWER AND TELECOM CONDUITS, AND PLACEMENT OF VAULTS, ALONG SOUTH SIDE OF NEW ROADWAY, BETWEEN CURB EDGE AND RETAINING WALLS TO THE SOUTH. REFER TO CIVIL PLANS FOR EXACT LOCATIONS. PROVIDE TWO 6-INCH CONDUITS FOR PRIMARY POWER FROM SEASIDE HEIGHT ELEMENTARY TO HIGH SCHOOL AND FUTURE RESERVOIR.

6 CONDUIT TO TERMINATE IN CURVED LID JBOX WITHIN THE LIGHTPOLE BASE. INSTALL LIQUID TIGHT FLEX FROM THE JBOX TO THE CAMERA LOCATION.

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REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 14, 2005
NORMAN CHRISTY
PRELIMINARY
EXPIRES: 12/31/19

key plan

phase	Design Development
date	4/6/2018
revisions	
project #	17007

SITE PLAN SECTOR 3 - ELECTRICAL

E1.13

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FEEDER SCHEDULE

Key

A, C, S, X	A = Aluminum C = Conduit only S = Service secondary X = Separately derived system
304	4 #10 CU, 1 #10 CU GND., IN 3/4" C.
504	4 #6 CU, 1 #10 CU GND., IN 1" C.
804	4 #2 CU, 1 #8 CU GND., IN 1-1/4" C.
1003	3 #2 CU, 1 #8 CU GND., IN 1-1/4" C.
1254	4 #1 CU, 1 #6 CU GND., IN 1-1/2" C.
2254	4 #4/0 CU, 1 #4 CU GND., IN 2-1/2" C.
2254X	4 #4/0 CU, 1 #2 CU GND., IN 2-1/2" C.
4004	2 SETS OF (4 #3/0 CU, 1 #2 CU GND., IN 2" C.)
2000C	SIX 3" DIAMETER EMPTY CONDUIT WITH PULL CORD
2000S	6 SETS OF (4 - 400 kcmil CU IN 3" C.)

GENERAL SHEET NOTES

A. PROVIDE A SELECTIVELY COORDINATED EMERGENCY AND STANDBY SYSTEMS TO 0.1 SECONDS.

B. CIRCUITS: UNLESS OTHERWISE NOTED, SUPPLY 42-CIRCUIT PANELS FOR EMERGENCY, MECHANICAL AND LIGHTING. SUPPLY 54-CIRCUIT PANELS FOR 208/120-VOLT AND STANDBY POWER. MINIMUM 225-AMP BUS. MINIMUM AIC RATING OF PANELS: IN MAIN ELECTRICAL ROOM, USE SAME RATING AS SWITCHBOARDS; OUTSIDE MAIN ELECTRICAL ROOM, ASSUME 22KAIC FOR 480/277-VOLT PANELS AND 208/120-VOLT PANELS.

C. LIGHTING CONTROL PANELS: PROVIDE MINIMUM 32-RELAY PANELS FOR PURPOSES OF CONTROLLING EXTERIOR LIGHTING CIRCUITS AND INTERIOR COMMONS AREA AND EGRESS PATH (CORRIDORS AND STAIRWELL) LIGHTING CIRCUITS. WHERE OCCUPANCY SENSORS ARE SHOWN IN EGRESS PATH AREAS, THOSE SENSORS CONNECT BACK TO LIGHTING CONTROL PANELS AS CONTROL INPUT. PROVIDE HIGH VOLTAGE BARRIER SECTION IN EACH PANEL FOR SEPARATION BETWEEN NORMAL /STANDBY AND EMERGENCY LIGHTING CIRCUITS.

SHEET KEYNOTES

1 SOLID-STATE BREAKER WITH LSIG-TRIP SETTINGS.

2 PROVIDE 3-1/2 INCH HIGH CONCRETE HOUSEKEEPING PAD UNDER TRANSFORMER/SWITCHBOARD.

3 PULL SECTION AND CURRENT TRANSFORMER/TERMINAL CABINET PER POWER COMPANY REQUIREMENTS.

4 PROVIDE ARC FLASH ENERGY REDUCTION FUNCTION INTEGRAL INTEGRAL TO BREAKER WITH REMOTE MANUAL CONTROL AT ENTRY TO ROOM CONTAINING SWITCHBOARD.

5 COORDINATE WITH UTILITY FOR NET METER DUE TO PRESENCE OF ON-SITE GENERATED POWER.

6 PROVIDE VOLTAGE BARRIER TO SEPARATE LIFE-SAFETY FROM NORMAL CIRCUITS.

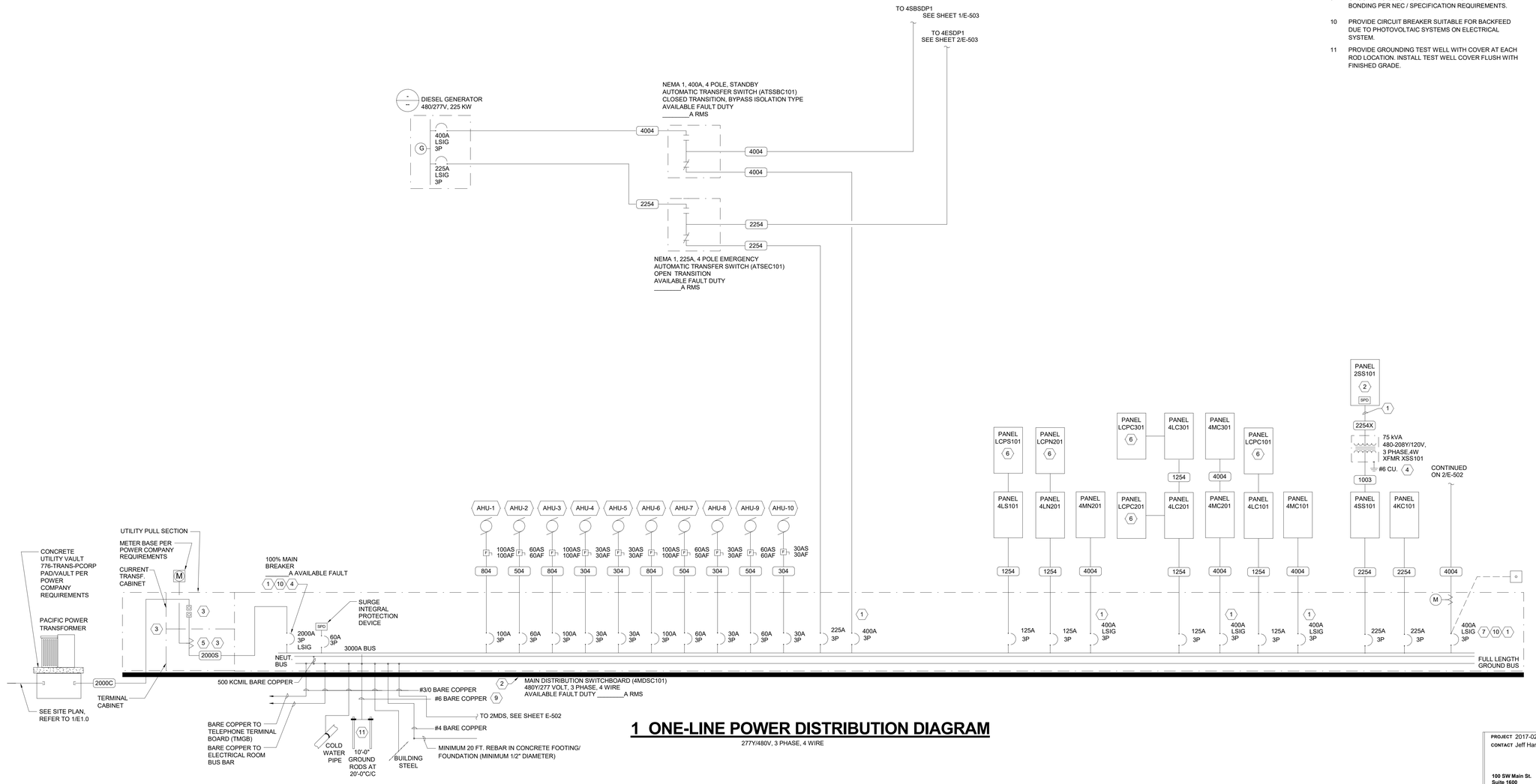
7 PROVIDE SHUNT TRIP CIRCUIT BREAKER, WIRING AND CONTROLS. PROVIDE ONE REMOTE SHUNT TRIP DISCONNECT SWITCH AND CONTROLS IN MAIN ELECTRICAL ROOM 367, IDF ROOM 310 AND ELECTRICAL ROOM 461. ACTIVATION OF EITHER SWITCH IS TO TURN ALL PV SYSTEMS AT BUILDING OFF. PROVIDE ENGRAVED LABEL AT REMOTE DISCONNECT: "BUILDING PHOTOVOLTAIC SYSTEMS EMERGENCY DISCONNECT." LOCATE CIRCUIT BREAKER AT OPPOSITE END OF THE BUSBAR FROM THE UTILITY SOURCE. NEC 705.12(D)(2)(3)(b) IS MET. PROVIDE WARNING LABEL: "WARNING: INVERTER OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE".

8 INSTALL FEEDER FROM TRANSFORMER SECONDARY TO MAIN BREAKER IN SWITCHBOARD / PANELDISCONNECT, NOT TO EXCEED 25 FEET PER NEC 240.21(C)(6).

9 GROUNDING ELECTRODE SYSTEM SHOWN. PROVIDE BONDING PER NEC / SPECIFICATION REQUIREMENTS.

10 PROVIDE CIRCUIT BREAKER SUITABLE FOR BACKFEED DUE TO PHOTOVOLTAIC SYSTEMS ON ELECTRICAL SYSTEM.

11 PROVIDE GROUNDING TEST WELL WITH COVER AT EACH ROD LOCATION. INSTALL TEST WELL COVER FLUSH WITH FINISHED GRADE.



1 ONE-LINE POWER DISTRIBUTION DIAGRAM

277Y/480V, 3 PHASE, 4 WIRE

BRIC ARCHITECTURE, INC.
1233 NW NORTHRUP STREET, SUITE 100
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New Middle School / High School

Seaside School District
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REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 31, 1998
HERMAN CHESLEY
PRELIMINARY
EXPIRES: 12/31/19

FOR REFERENCE
k e y p l a n

phase	Design Development
date	4/6/2018
revisions	
project #	17007

SINGLE LINE DIAGRAMS - ELECTRICAL

E5.01

PROJECT 2017-0257
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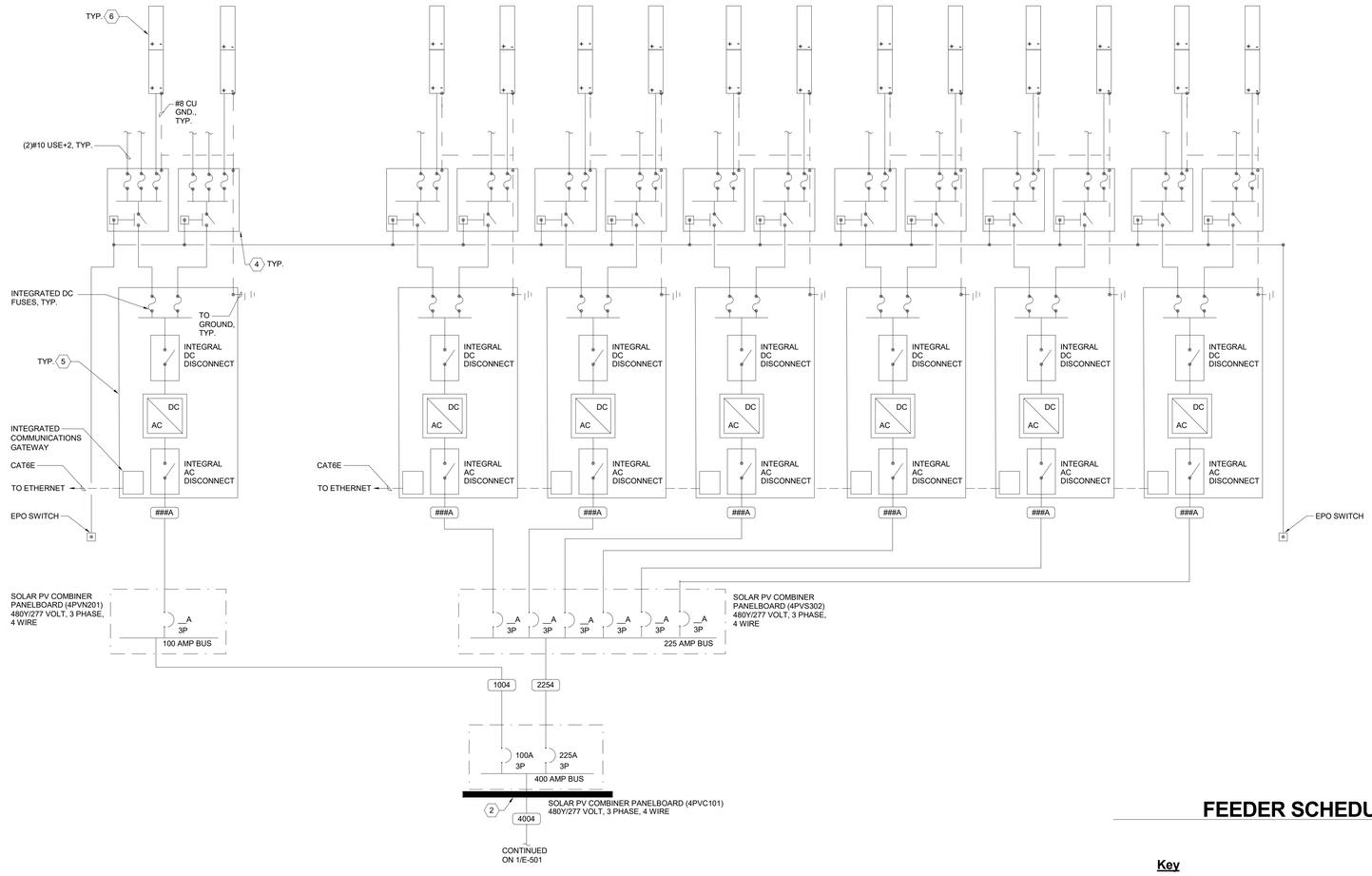
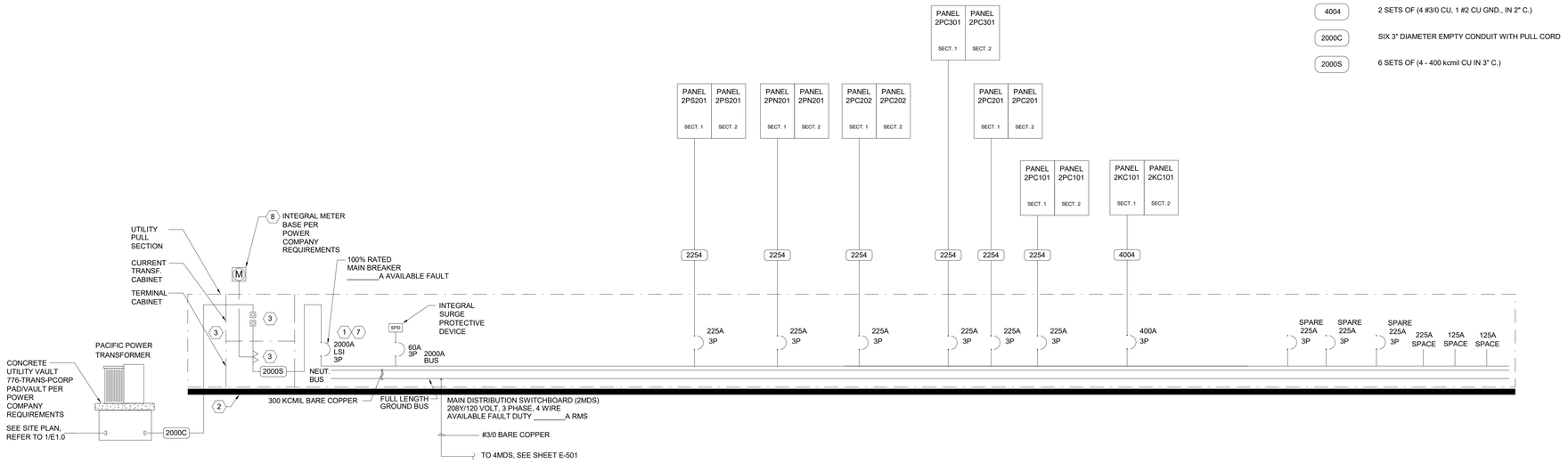


2 PV ONE-LINE POWER DIAGRAM

480Y/277V, 3 PHASE, 4 WIRE



1 ONE-LINE POWER DISTRIBUTION DIAGRAM

120Y/208V, 3 PHASE, 4 WIRE

FEEDER SCHEDULE

Key

A, C, S, X	A = Aluminum C = Conduit only S = Service secondary X = Separately derived system
1004	4 #2 CU, 1 #8 CU GND., IN 1-1/4" C.
2254	4 #4/0 CU, 1 #4 CU GND., IN 2-1/2" C.
4004	2 SETS OF (4 #3/0 CU, 1 #2 CU GND., IN 2" C.)
2000C	SIX 3" DIAMETER EMPTY CONDUIT WITH PULL CORD
2000S	6 SETS OF (4 - 400 kcmil CU IN 3" C.)

GENERAL SHEET NOTES

A. PROVIDE A SELECTIVELY COORDINATED EMERGENCY, STANDBY SYSTEMS TO 0.1 SECONDS, AND ELEVATORS TO 0.01 SECONDS.

B. CIRCUITS: UNLESS OTHERWISE NOTED, SUPPLY 42-CIRCUIT PANELS FOR EMERGENCY, MECHANICAL AND LIGHTING. SUPPLY 54-CIRCUIT PANELS FOR 208/120-VOLT AND STANDBY POWER. MINIMUM 225-AMP BUS. MINIMUM AIC RATING OF PANELS: IN MAIN ELECTRICAL ROOM, USE SAME RATING AS SWITCHBOARDS; OUTSIDE MAIN ELECTRICAL ROOM, ASSUME 22KAIC FOR 480/277-VOLT PANELS AND 208/120-VOLT PANELS.

C. LIGHTING CONTROL PANELS: PROVIDE MINIMUM 32-RELAY PANELS FOR PURPOSES OF CONTROLLING EXTERIOR LIGHTING CIRCUITS AND INTERIOR COMMONS AREA AND EGRESS PATH (CORRIDORS AND STAIRWELL) LIGHTING CIRCUITS. WHERE OCCUPANCY SENSORS ARE SHOWN IN EGRESS PATH AREAS, THOSE SENSORS CONNECT BACK TO LIGHTING CONTROL PANELS AS CONTROL INPUT. PROVIDE HIGH VOLTAGE BARRIER SECTION IN EACH PANEL FOR SEPARATION BETWEEN NORMAL /STANDBY AND EMERGENCY LIGHTING CIRCUITS.

SHEET KEYNOTES

1 SOLID-STATE BREAKER WITH LSI-TRIP SETTINGS.

2 PROVIDE 3-1/2 INCH HIGH CONCRETE HOUSEKEEPING PAD UNDER TRANSFORMER/SWITCHBOARD.

3 PULL SECTION AND CURRENT TRANSFORMER/TERMINAL CABINET PER POWER COMPANY REQUIREMENTS.

4 PV DC COMBINER BOXES LOCATED ON ROOF. INTEGRATED RAPID SHUTDOWN OPTION AND INTEGRATED DISCONNECT. SEE FINAL SHOP DRAWINGS FOR COUNT AND LOCATIONS.

5 PV INVERTERS ARE NEMA 3R RATED AND LOCATED ON THE ROOF (EXTERIOR). SEE FINAL SHOP DRAWINGS FOR INVERTER TYPE, SIZE, COUNT AND LOCATIONS.

6 SEE FINAL SHOP DRAWINGS FOR PV MODULE COUNT, CONDUIT/ CONDUCTOR SIZES AND ROOFTOP PLACEMENT.

7 PROVIDE ARC FLASH ENERGY REDUCTION FUNCTION INTEGRAL TO BREAKER WITH REMOTE MANUAL CONTROL AT ENTRY TO ROOM CONTAINING SWITCHBOARD

8 COORDINATE WITH UTILITY FOR NET METER DUE TO PRESENCE OF ON-SITE GENERATED POWER.

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REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 14, 1986
JEFFREY H. SHIELDS
RENEWAL: 12/31/19
PRELIMINARY
EXPIRES: 12/31/19

FOR REFERENCE
k e y p l a n

phase	Design Development
date	4/6/2018
revisions	
project #	17007

SINGLE LINE DIAGRAMS - ELECTRICAL

E5.02

PROJECT 2017-0257
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FEEDER SCHEDULE

Key

A, C, S, X	A = Aluminum C = Conduit only S = Service secondary X = Separately derived system
202	2 #12 CU, 1 #12 CU GND., IN 3/4" C.
402X	2 #8 CU, 1 #8 CU GND., IN 3/4" C.
1003	3 #2 CU, 1 #8 CU GND., IN 1-1/4" C.
1004	4 #2 CU, 1 #8 CU GND., IN 1-1/4" C.
1503	3 #1/0 CU, 1 #6 CU GND., IN 1-1/2" C.
1504	4 #1/0 CU, 1 #6 CU GND., IN 2" C.
1504X	4 #1/0 CU, 1 #6 CU GND., IN 2" C.
2254	4 #4/0 CU, 1 #4 CU GND., IN 2-1/2" C.
2254X	4 #4/0 CU, 1 #2 CU GND., IN 2-1/2" C.

GENERAL SHEET NOTES

A. PROVIDE A SELECTIVELY COORDINATED EMERGENCY, STANDBY SYSTEMS TO 0.1 SECONDS, AND ELEVATORS TO 0.01 SECONDS.

B. CIRCUITS: UNLESS OTHERWISE NOTED, SUPPLY 42-CIRCUIT PANELS FOR EMERGENCY, MECHANICAL AND LIGHTING. SUPPLY 54-CIRCUIT PANELS FOR 208/120-VOLT AND STANDBY POWER. MINIMUM 225-AMP BUS. MINIMUM AIC RATING OF PANELS: IN MAIN ELECTRICAL ROOM, USE SAME RATING AS SWITCHBOARDS; OUTSIDE MAIN ELECTRICAL ROOM, ASSUME 22KAIC FOR 480/277-VOLT PANELS AND 208/120-VOLT PANELS.

C. LIGHTING CONTROL PANELS: PROVIDE MINIMUM 32-RELAY PANELS FOR PURPOSES OF CONTROLLING EXTERIOR LIGHTING CIRCUITS AND INTERIOR COMMONS AREA AND EGRESS PATH (CORRIDORS AND STAIRWELL) LIGHTING CIRCUITS. WHERE OCCUPANCY SENSORS ARE SHOWN IN EGRESS PATH AREAS, THOSE SENSORS CONNECT BACK TO LIGHTING CONTROL PANELS AS CONTROL INPUT. PROVIDE HIGH VOLTAGE BARRIER SECTION IN EACH PANEL FOR SEPARATION BETWEEN NORMAL /STANDBY AND EMERGENCY LIGHTING CIRCUITS.

SHEET KEYNOTES

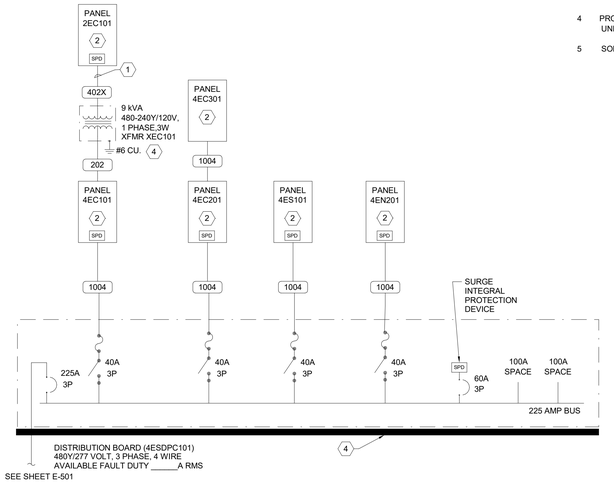
1 INSTALL FEEDER FROM TRANSFORMER SECONDARY TO MAIN BREAKER IN SWITCHBOARD / PANEL/DISCONNECT, NOT TO EXCEED 25 FEET PER NEC 240.21(C)(6).

2 PROVIDE FUSED PANELBOARD PER SPECIFICATIONS FOR COMPLIANCE WITH OESC ARTICLES 700 AND 702 FOR SELECTIVE COORDINATION TO THE BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE.

3 PROVIDE VOLTAGE BARRIER TO SEPARATE LIFE-SAFETY FROM NORMAL CIRCUITS.

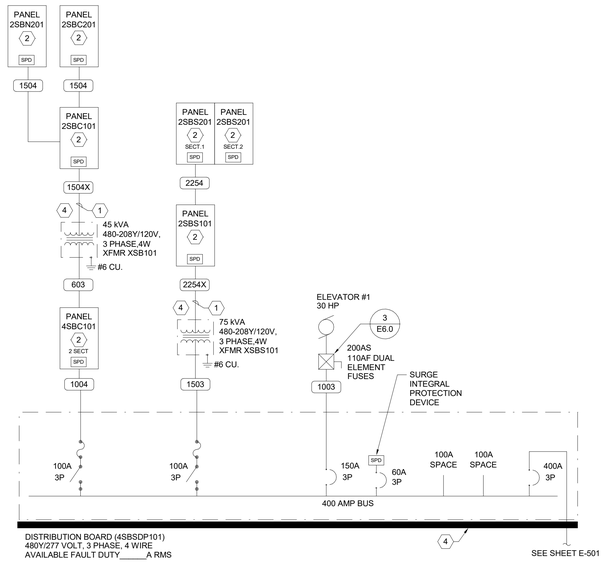
4 PROVIDE 3-1/2 INCH HIGH CONCRETE HOUSEKEEPING PAD UNDER TRANSFORMER/SWITCHBOARD.

5 SOLID-STATE BREAKER WITH LSIG-TRIP SETTINGS.



2 EMERGENCY ONE-LINE POWER DISTRIBUTION DIAGRAM

277Y/480V, 3 PHASE, 4 WIRE



1 STANDBY ONE-LINE POWER DISTRIBUTION DIAGRAM

277Y/480V, 3 PHASE, 4 WIRE

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REGISTERED PROFESSIONAL ENGINEER — OREGON — JEFFREY M. WISE — COMMON WEALTH OF PENNSYLVANIA — PRELIMINARY — EXPIRES: 12/31/19

FOR REFERENCE
k e y p l a n

phase	Design Development
date	4/6/2018
revisions	
project #	17007

SINGLE LINE DIAGRAMS - ELECTRICAL

E5.03

PROJECT 2017-0257
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