

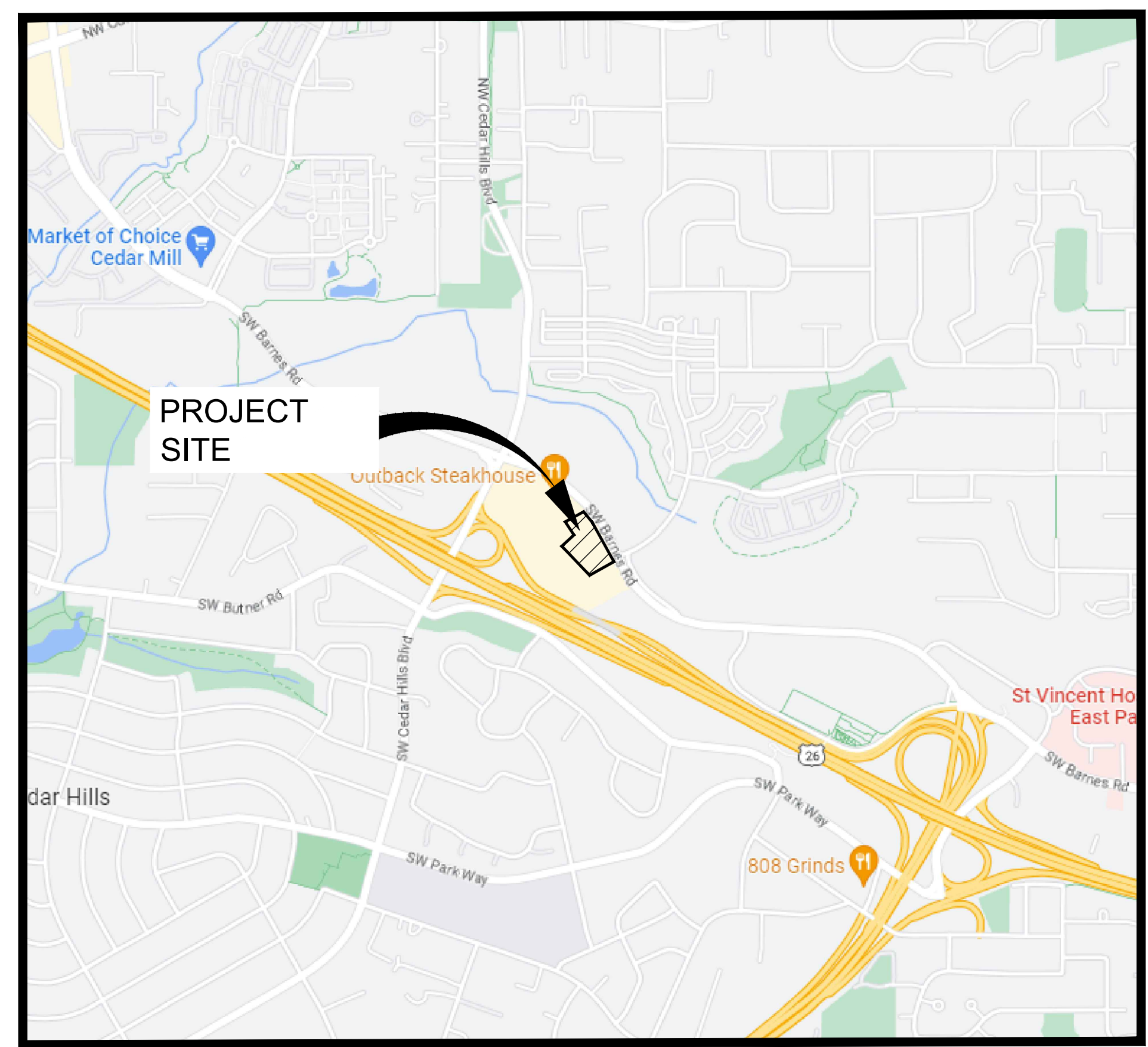
PETERKORT TOWNE SQUARE - STARBUCKS

BEAVERTON, OR



LEGEND

PROPOSED	DESCRIPTION	EXISTING
---	PROPERTY LINE	---
---	RIGHT OF WAY	---
---	EASEMENT LINE	---
---	CENTERLINE	---
▬▬▬	BUILDING OUTLINE	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	BUILDING OVERHANG	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	SIDEWALK/CONCRETE	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	CURB	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	CURB & GUTTER	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	GRADE BREAK	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	SAWCUT	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	MAJOR CONTOUR	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	MINOR CONTOUR	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	STORM SEWER	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	SANITARY SEWER	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	WATER MAIN	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	GAS MAIN	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	OVERHEAD UTILITY	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	FIBER OPTICS	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	ELECTRICAL	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	UTILITY TO BE ABANDONED	▬▬▬▬▬▬▬▬▬▬
■	CATCH BASIN	■
■	AREA DRAIN	■
○	UTILITY POLE	○
□	LIGHT POLE	□
○	JUNCTION BOX	○
○	CLEANOUT (COTG)	○
○	MANHOLE	○
○	WATER METER	○
○	FIRE HYDRANT	○
○	FDC	○
○	GAS VALVE	○
○	GAS METER	○
○	SIGN	○
○	TREE	○
○	UTILITY POLE	○
○	UTILITY VAULT	○
○	THRUST BLOCK	○
▬▬▬▬▬▬▬▬▬▬	AC PAVEMENT	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	SCORING PATTERN	▬▬▬▬▬▬▬▬▬▬
▬▬▬▬▬▬▬▬▬▬	LANDSCAPE AREA	▬▬▬▬▬▬▬▬▬▬



VICINITY MAP

MAP FROM: GOOGLE MAPS

PROJECT INFORMATION

THE PROJECT IS LOCATED AT 10910 SW BARNES ROAD PORTLAND, OR 97225 WITH STATE ID 1S103A001600, TOWNSHIP 1S, RANGE 1W, SECTION 3 LOT 1600, AND IS PART OF THE 1994-109 PARTITION PLAT, LOT 2. ONLY THIS ONE TAX LOT IS AFFECTED BY THIS DEVELOPMENT.

THE ASSOCIATED LAND USE NUMBER IS DR2022-0008

PERVIOUS AND IMPERVIOUS SURFACE AREA

	PERVIOUS AREA (SQFT)	IMPERVIOUS AREA (SQFT)
WITHIN PUBLIC ROW	0	17
PRIVATE PROPERTY	15,045	108,872

PROJECT CONTACTS

OWNER:
PETERKORT TOWNE SQUARE LLC
9755 SW BARNES ROAD, SUITE 690
PORTLAND, OREGON 97225
TEL: 503-292-1981
CONTACT: LOIS D. DITMARS

CIVIL ENGINEER:
FROELICH ENGINEERS, INC.
17700 SW UPPER BOONES FERRY ROAD SUITE 115
PORTLAND, OREGON 97224
TEL: 503-624-7005
CONTACT: EVAN EYKELBOSCH, PE

ARCHITECT:
BAYSINGER PARTNERS ARCHITECTURE
2410 N LOMBARD ST
PORTLAND, OREGON 97217
TEL: 503-546-1600
CONTACT: MATTHEW LILLARD, AIA

ABBREVIATIONS

AC	ASPHALT CONCRETE	OVFL	OVERFLOW
AD	AREA DRAIN	OVH/OH	OVERHEAD
APPROX	APPROXIMATE	P/L	PROPERTY LINE
B	BOLLARD	PC	POINT OF CURVATURE
BLDG	BUILDING	PCC	POINT OF COMPOUND CURVATURE
BOW	BACK OF WALK	PCR	POINT OF CURB RETURN
BS	BOTTOM OF SWALE	PED	PEDESTRIAN
	BOTTOM OF STAIR	PIV	POST INDICATOR VALVE
BW	BOTTOM OF STAIR	PM	PARKING METER
CB	CATCH BASIN	POC	POINT ON CURVE
CL	CENTERLINE	PP	POWER POLE
CMU	CONCRETE MASONRY UNIT	PRC	POINT OF REVERSE CURVATURE
CO	CLEANOUT	PT	POINT OF TANGENT
CONC.	CONCRETE	P.U.E	PUBLIC UTILITY EASEMENT
COTG	CLEANOUT TO GRADE	PVC	POLYVINYL CHLORIDE
CP	CONTROL POINT	PVMT	PAVEMENT
Δ	DELTA	PVT	PRIVATE
DW	DRIVEWAY	R	RIM
DIA. Ø	DIAMETER	RD	ROOF DRAIN
DIP	DUCTILE IRON PIPE	R.O.W	RIGHT-OF-WAY
E	EASTING	S	SLOPE (FT/FT)
EXIST./EX	EXISTING	SD	STORM DRAIN
FDC	FIRE DEPARTMENT CONNECTION	SDMH	STORM DRAIN MANHOLE
FF	FINISH FLOOR ELEVATION	SHT	SHEET
FG	FINISH GRADE	SS	SANITARY SEWER
FH	FIRE HYDRANT	SSMH	SANITARY SEWER MANHOLE
FL	FLOWLINE	ST	STREET
FND	FOUNDATION	STA	STATION
G	GUTTER	STD	STANDARD
GB	GRADE BREAK	S/W	SIDEWALK
GL	GAS LINE	TC	TOP OF CURB
GV	GATE VALVE	TD	TRENCH DRAIN
H	HEIGHT	TP	TOP OF GROUND
HCP	HANDICAP PARKING SPACE	TP	TOP OF PAVEMENT
HP	HIGH POINT	TRANS.	TRANSFORMER
ID	INSIDE DIAMETER	TS	TOP OF STAIR
IE	INVERT ELEVATION	TW	TOP OF WALL
INV	INVERT		TOP OF WALK
IRR	IRRIGATION	TYP	TYPICAL
LP	LIGHT POLE	UG	UNDERGROUND
MH	MANHOLE	UGE	UNDERGROUND ELECTRIC
MIN	MINIMUM	W	WATER
N	NORTHING	W/	WITH
O.D	OUTSIDE DIAMETER	WM	WATER METER
OF	OUTFALL	WV	WATER VALVE

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
C0.1	COVER SHEET
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C2.0	SITE PLAN
C2.1	STATION PLAN
C3.0	GRADING PLAN
C3.1	GRADING PLAN
C3.2	GRADING ENLARGEMENT
C3.3	GRADING ENLARGEMENT - ADA RAMP
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C4.1	UTILITY ENLARGEMENTS
C4.2	UTILITY STRUCTURE TABLE
C4.3	FIRE PROTECTION PLAN
C5.0	TYPICAL DETAILS
C5.1	TYPICAL DETAILS
C5.2	TYPICAL DETAILS
C5.3	TYPICAL DETAILS
C5.4	TYPICAL DETAILS
C5.5	TYPICAL DETAILS
C5.6	TYPICAL DETAILS
C6.0	EROSION AND SEDIMENT CONTROL COVER SHEET
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C6.3	VERTICAL CONSTRUCTION EROSION CONTROL PLAN
C6.4	FINAL STABILIZATION PLAN
C6.5	EROSION CONTROL DETAILS

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PETERKORT TOWNE SQUARE STARBUCKS

Revisions

PK21052
Original Issue: 06.21.2023
Drawn/Check By: BLU/EME

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PROPOSED PHASE 2 COVER SHEET

C0.1 DESIGN REVIEW

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 TOWNE SQUARE
 STARBUCKS

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PROPOSED
 PHASE 2
 NOTES

C1.0
 DESIGN REVIEW

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.

COMPLIANCE STATEMENT

THIS DESIGN COMPLIES WITH ORS 92.044(7) IN THAT NO UTILITY INFRASTRUCTURE IS DESIGNED TO BE WITHIN 1 FOOT OF A SURVEY MONUMENT SHOWN ON A SUBDIVISION OR PARTITION PLAT. NO DESIGN EXCEPTION OR FINAL FIELD LOCATION CHANGE SHALL BE PERMITTED IF IT WOULD CAUSE ANY UTILITY INFRASTRUCTURE TO BE PLACED WITHIN A PROHIBITED AREA.

CONSTRUCTION NOTES

GENERAL

- SUBGRADE AND TRENCH BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER IS NOT PERMITTED.
- SPECIAL INSPECTION REQUIRED FOR ALL COMPACTION TESTING.

DEMOLITION

- 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. DISPOSE OF DEMOLISHED ITEMS OFF-SITE IN A LEGAL MANNER.
- 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.
- ITEMS INDICATED TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND DELIVERED STORED AT THE PROJECT SITE AS DIRECTED BY THE OWNER.
- ALL LANDSCAPING, PAVEMENT, CURBS AND SIDEWALKS, BEYOND THE IDENTIFIED SITE AREA, DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED TO THEIR ORIGINAL CONDITION OR BETTER.
- CONCRETE SIDEWALKS SHOWN FOR DEMOLITION SHALL BE REMOVED TO THE NEAREST EXISTING CONSTRUCTION JOINT.
- SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING AND NEW PAVEMENT.

GRADING

- ALL SURFACES SHALL HAVE MINIMUM 1.5% SLOPE UNLESS OTHERWISE NOTED ON PLANS. ALL SURFACES SHALL MEET EXISTING GRADES SMOOTHLY AND EVENLY AND MAINTAIN CONSTANT SLOPES UNLESS OTHERWISE NOTES ON PLANS.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING SITE AND DRAINAGE PATTERNS AND PROTECTION OF EXISTING ENGINEERED DRAINAGE FACILITIES.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS ADJACENT TO EXISTING TREES IN ORDER TO MINIMIZE DISTURBANCE TO TREE ROOTS. CONTRACT SHALL INSTALL TREE PROTECTION FENCING AS INDICATED ON PLANS OR DRIP-LINE OF EXISTING TREES. NO PARKING VEHICLES UNDER TREES.

UTILITIES

- ADJUST ALL INCIDENTAL STRUCTURES, MANHOLES, VALVE BOXES, CATCH BASINS, FRAMES AND COVERS, ETC. TO FINISHED GRADE.
- 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.
- CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE INSTALLATION OF OR ADJUSTMENT TO GAS, ELECTRICAL, POWER AND TELEPHONE SERVICE.
- 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

- CONNECTIONS TO EXISTING STORM AND SANITARY SEWERS SHALL CONFORM TO THE 2021 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 00490, "WORK ON EXISTING SEWERS AND STRUCTURES".
- 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.
- ALL ROOF DRAIN AND CATCH BASIN LEADERS SHALL HAVE A MINIMUM SLOPE OF 2 PERCENT UNLESS NOTED OTHERWISE IN THE PLANS.

WATER

- ALL WATER AND FIRE PROTECTION PIPE SHALL HAVE A MINIMUM 36-INCH COVER TO THE FINISH GRADE.
- ALL WATER AND FIRE PRESSURE FITTINGS SHALL BE FULLY RESTRAINED.
- ALL WATER MAIN / SANITARY SEWER CROSSINGS SHALL CONFORM TO THE OREGON STATE HEALTH DEPARTMENT REGULATIONS, CHAPTER 333.
- ALL WATER LINES SHALL BE THOROUGHLY FLUSHED, CHLORINATED AND TESTED IN ACCORDANCE WITH OREGON STATE HEALTH DEPARTMENT PRIOR TO ANY METER HOOK UP SERVICE.

EARTHWORK

- CONTRACTOR SHALL PREVENT SEDIMENTS AND SEDIMENT LADEN WATER FROM ENTERING THE STORM DRAINAGE SYSTEM.
- FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER WILL NOT BE PERMITTED.
- BACKFILL: REFERENCE THE PROJECT SOILS REPORT.
- COMPACTION AND LIFTS: REFERENCE THE PROJECT SOILS REPORT.
- NONWOVEN GEOTEXTILE - MIRAFI 140N, OR APPROVED EQUIVALENT

PUBLIC WATER SYSTEMS CONSTRUCTION

- ALL WATERLINE AND APPURTENANCE MATERIALS, INSTALLATION, AND TESTING SHALL MEET TUALATIN VALLEY WATER DISTRICT CURRENT STANDARDS AND SPECIFICATIONS.
- ALL WATERLINE AND FITTINGS SHALL BE ZINC AND ASPHALT COATED, CEMENT MORTAR LINED, AND CLASS 52 DUCTILE IRON PIPE WITH POLYETHYLENE ENGASEMENT.
- ONLY TVWD PERSONNEL CAN OPERATE EXISTING OR HOT TAPPED WATER SYSTEM VALVES.
- THE CONTRACTOR MUST CONTACT A TVWD INSPECTOR AT LEAST 48 HOURS BEFORE ANY WATER SYSTEM CONSTRUCTION TO REQUEST A PRE-CONSTRUCTION MEETING.

GENERAL NOTES

- SURVEY PROVIDED BY S&F LAND SERVICES, DATED 07/20/2022. ELEVATIONS ARE BASED ON WASHINGTON COUNTY VERTICAL DATUM ESTABLISHED PER BENCH MARK NO. 781 WITH AN ELEVATION OF 350.410'.
- 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.
- PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE HORIZONTAL POSITION PRIOR TO BEGINNING CONSTRUCTION LAYOUT. SEE SHEET C2.0 FOR PROJECT CONTROL INFORMATION.
- PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE VERTICAL POSITION BASED ON THE BENCHMARK STATED HEREON, PRIOR TO BEGINNING CONSTRUCTION LAYOUT.
- WHEN DIMENSIONS AND COORDINATE LOCATIONS ARE REPRESENTED - DIMENSIONS SHALL HOLD OVER COORDINATE LOCATION. NOTIFY THE CIVIL ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY.
- 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.
- 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.
- EXISTING CONDITIONS MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS, THE PROJECT SPECIFICATIONS AND THE APPLICABLE REQUIREMENTS OF THE 2021 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE 2021 OREGON PLUMBING SPECIALTY CODE AND REQUIREMENTS OF THE CITY OF BEAVERTON.
- 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.
- 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.
- 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 FROELICH ENGINEERS, 72 HOURS PRIOR TO START OF CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS.
- 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.
- TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE IMPLEMENTED. THE CONTRACTOR SHALL ADHERE TO CITY OF BEAVERTON 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.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ROADWAYS, KEEPING THEM CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS, AND PROVIDING DUST CONTROL AS REQUIRED.
- CONTRACTOR SHALL MAINTAIN ALL UTILITIES TO BLDG. AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE OWNER.
- NOTIFY CITY INSPECTOR 72 HOURS BEFORE STARTING WORK.

MATERIAL NOTES

- 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 PRIOR TO INSTALLATION.
- STORM AND SANITARY SEWER PIPING SHALL BE PVC PIPE, DUCTILE IRON PIPE, OR HIGH DENSITY POLYETHYLENE (HDPE) PIPE CONFORMING TO THE PROJECT SPECIFICATIONS; AS INDICATED IN THE PLANS.
- CONCRETE FOR CURBS, SIDEWALK AND DRIVEWAYS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,300 PSI AT 28 DAYS.

NOTICE TO EXCAVATORS:
 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).

POTENTIAL UNDERGROUND FACILITY OWNERS

Dig Safely.
 Call the Oregon One-Call Center
 1-800-332-2344

PRELIMINARY
 NOT FOR
 CONSTRUCTION

Revisions

SHEET NOTES

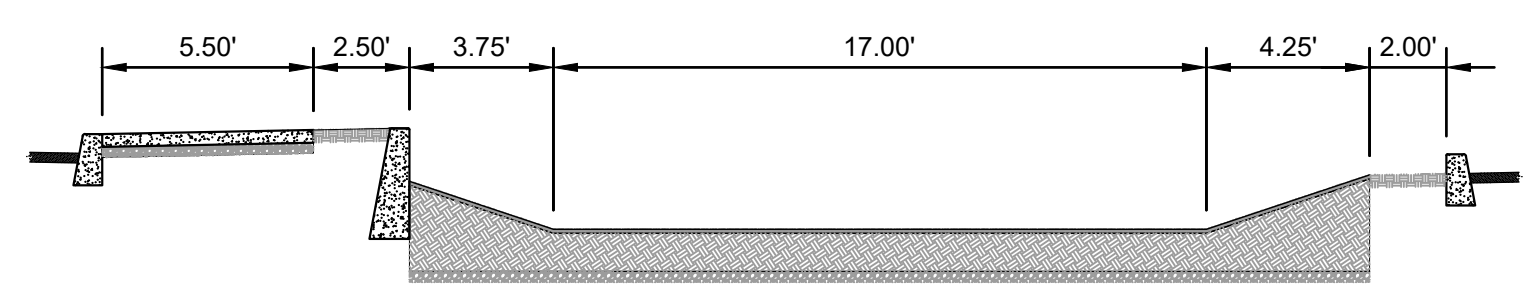
- ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
- CURB RADIUS TO BE 3.0' UNLESS NOTED OTHERWISE.
- SEE LANDSCAPE PLANS FOR PEDESTRIAN SCORING PATTERN.

KEY NOTES

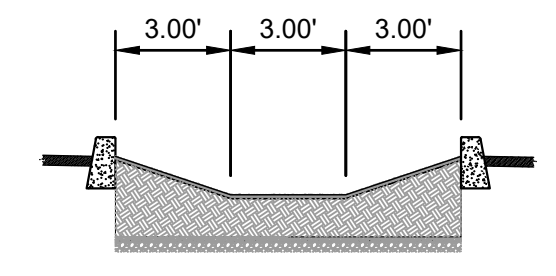
- SAWCUT LINE
- STANDARD CURB
- CURB RAMP - TYPE 1
- WHEEL STOP
- HEAVY CONCRETE PAVEMENT
- DETECTABLE WARNING, SEE LANDSCAPE PLANS
- CONCRETE SIDEWALK
- ADA PARKING STALLS
- CURB RAMP - TYPE 2
- STEPS, SEE ARCHITECTURAL PLANS
- LANDSCAPING, SEE LANDSCAPE PLANS
- ELEVATED PEDESTRIAN WALKWAY
- RETAINING WALL, SEE STRUCTURAL PLANS
- DRIVEWAY EQUIPMENT, BY OTHERS
- TRASH ENCLOSURE, SEE ARCHITECTURAL PLANS
- FLUSH CURB
- RAIN GARDEN, TYPE 1
- ADA SWITCHBACK RAMP
- RAIN GARDEN, TYPE 2
- CURB WALL
- PLANTER CURB
- CURB SPILLWAY
- 4'x8' TREE WELL, SEE LANDSCAPE PLANS
- PLAZA LAYOUT, SEE LANDSCAPE PLANS
- STRIPING
- STANDARD ASPHALT PAVEMENT
- TRANSITION CURB AROUND MANHOLE LID AND VAULTS 6" MINIMUM CLEAR
- BOLLARD
- CURB RAMP - TYPE 3
- CURB RAMP - TYPE 4
- 18" GUTTER
- PROPOSED BUILDING, SEE ARCHITECTURAL PLANS
- MOUNTABLE CURB
- REMOVABLE BOLLARDS, EQUALLY SPACED
- ADJUST RIM TO GRADE

SHEET LEGEND

	PROPERTY LINE
	CONCRETE SIDEWALK
	HEAVY CONCRETE PAVEMENT
	STANDARD ASPHALT PAVEMENT
	HEAVY ASPHALT PAVEMENT
	LANDSCAPING, SEE LANDSCAPE PLANS
	RAIN GARDEN
	PAVERS, SEE LANDSCAPE PLANS



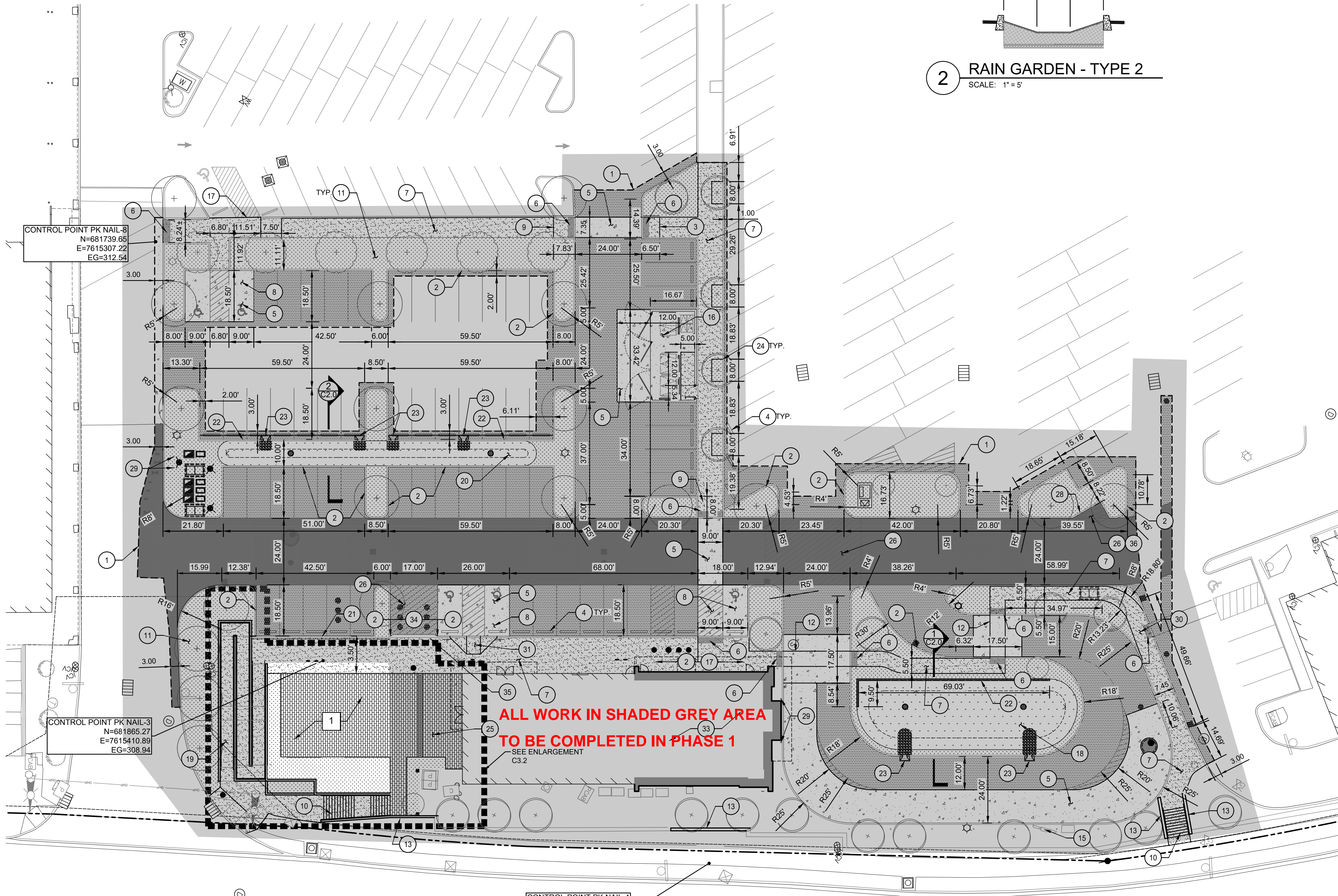
1 RAIN GARDEN - TYPE 1
 SCALE: 1" = 5'



2 RAIN GARDEN - TYPE 2
 SCALE: 1" = 5'

DEMOLITION KEY NOTES

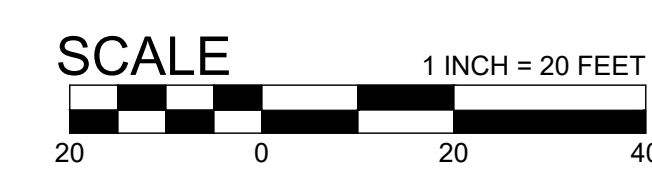
- REMOVE PAVERS AND CONCRETE FROM PLAZA



CONTROL POINT PK NAIL-4
 N=682022.66
 E=7615408.12
 EG=303.12

SW BARNES ROAD

SITE PLAN
 SCALE: 1" = 20'



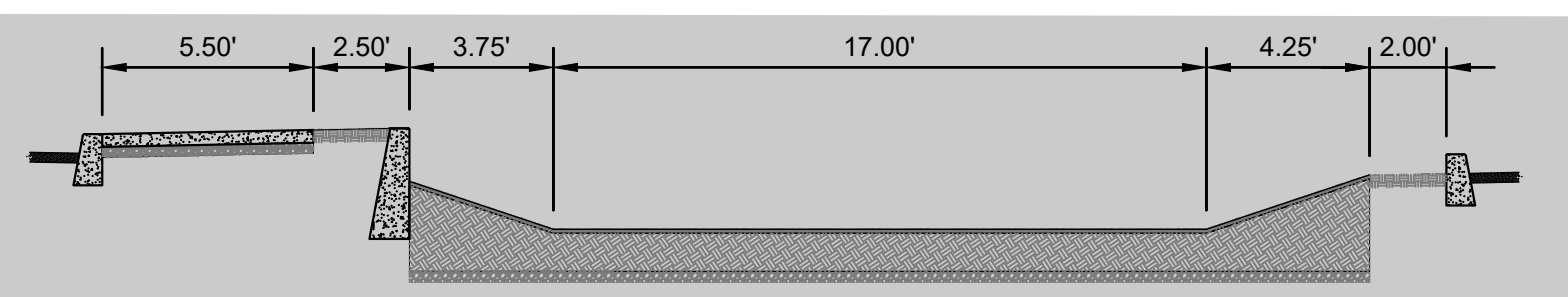
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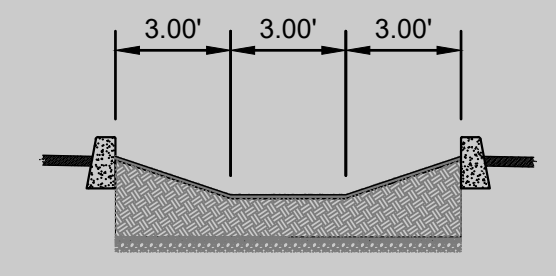
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 - WHEEL STOP
 - HEAVY CONCRETE PAVEMENT
 - DETECTABLE WARNING, SEE LANDSCAPE PLANS
 - CONCRETE SIDEWALK
 - ADA PARKING STALLS
 - CURB RAMP - TYPE 2
 - STEPS, SEE ARCHITECTURAL PLANS
 - LANDSCAPING, SEE LANDSCAPE PLANS
 - ELEVATED PEDESTRIAN WALKWAY
 - RETAINING WALL, SEE STRUCTURAL PLANS
 - DRIVEWAY EQUIPMENT, BY OTHERS
 - TRASH ENCLOSURE, SEE ARCHITECTURAL PLANS
 - FLUSH CURB
 - RAIN GARDEN, TYPE 1
 - ADA SWITCHBACK RAMP
 - RAIN GARDEN, TYPE 2
 - CURB WALL
 - PLANTER CURB
 - CURB SPILLWAY
 - 4'x8' TREE WELL, SEE LANDSCAPE PLANS
 - PLAZA LAYOUT, SEE LANDSCAPE PLANS
 - STRIPING
 - STANDARD ASPHALT PAVEMENT
 - TRANSITION CURB AROUND MANHOLE LID AND VAULTS 6" MINIMUM CLEAR
 - BOLLARD
 - CURB RAMP - TYPE 3
 - CURB RAMP - TYPE 4
 - 18" GUTTER
 - PROPOSED BUILDING, SEE ARCHITECTURAL PLANS
 - MOUNTABLE CURB
 - REMOVABLE BOLLARDS, EQUALLY SPACED
 - ADJUST RIM TO GRADE

SHEET LEGEND

	PROPERTY LINE
	CONCRETE SIDEWALK
	HEAVY CONCRETE PAVEMENT
	STANDARD ASPHALT PAVEMENT
	HEAVY ASPHALT PAVEMENT
	LANDSCAPING, SEE LANDSCAPE PLANS
	RAIN GARDEN
	PAVERS, SEE LANDSCAPE PLANS



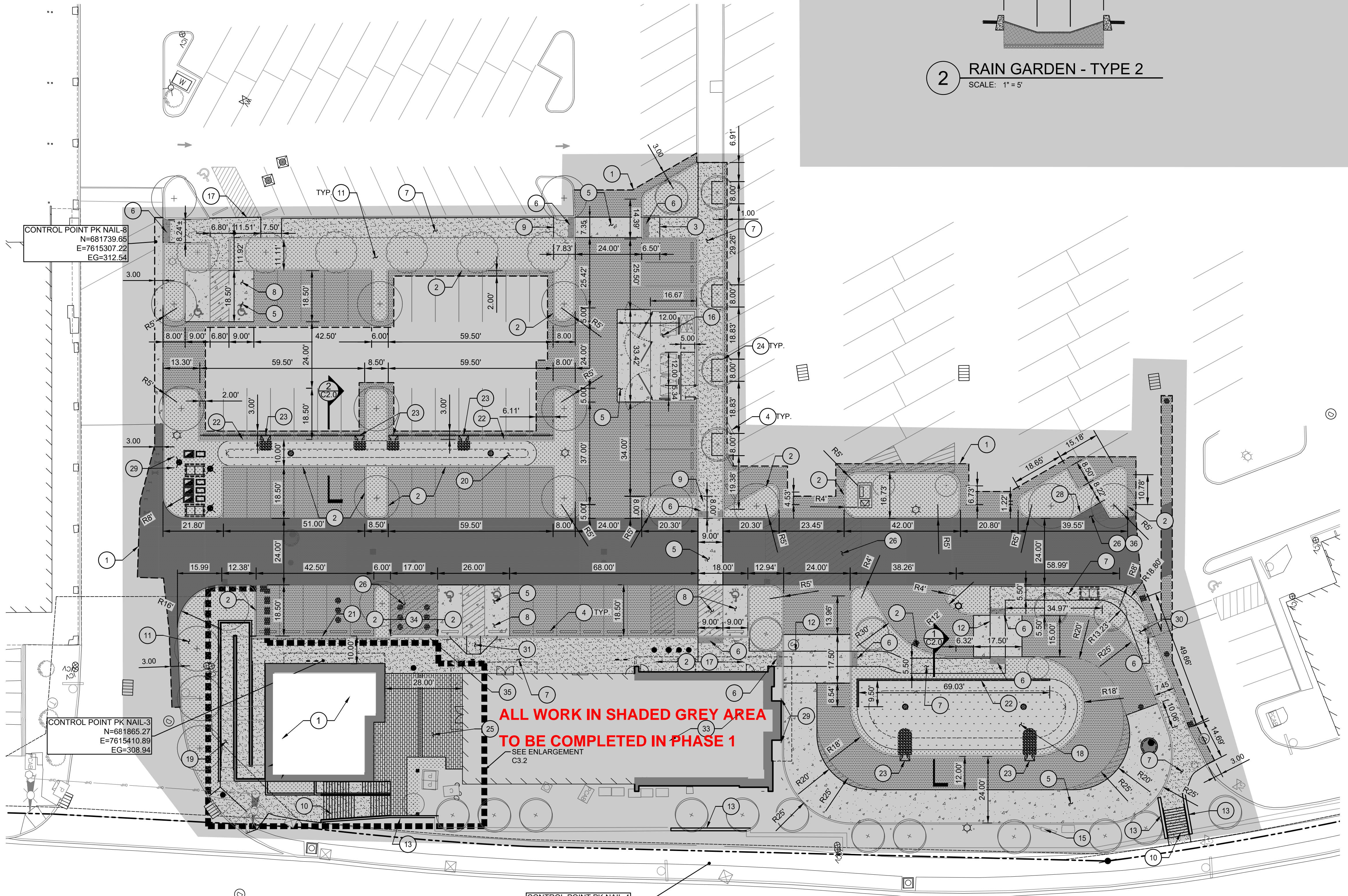
1 RAIN GARDEN - TYPE 1
SCALE: 1" = 5'



2 RAIN GARDEN - TYPE 2
SCALE: 1" = 5'

KEY NOTES

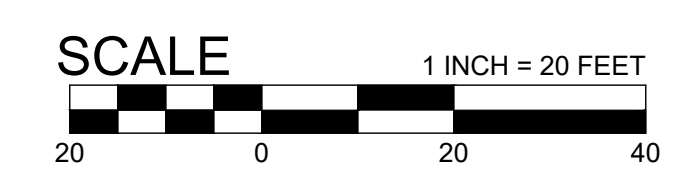
- BUILDING AND STAIRS PER ARCHITECTURAL PLANS



CONTROL POINT PK NAIL-4
N=682022.66
E=7615408.12
EG=303.12

SW BARNES ROAD

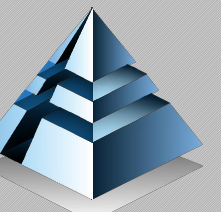
SITE PLAN
SCALE: 1" = 20'



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Plotted: 10/4/23 at 1:57pm By: eeykelbosch

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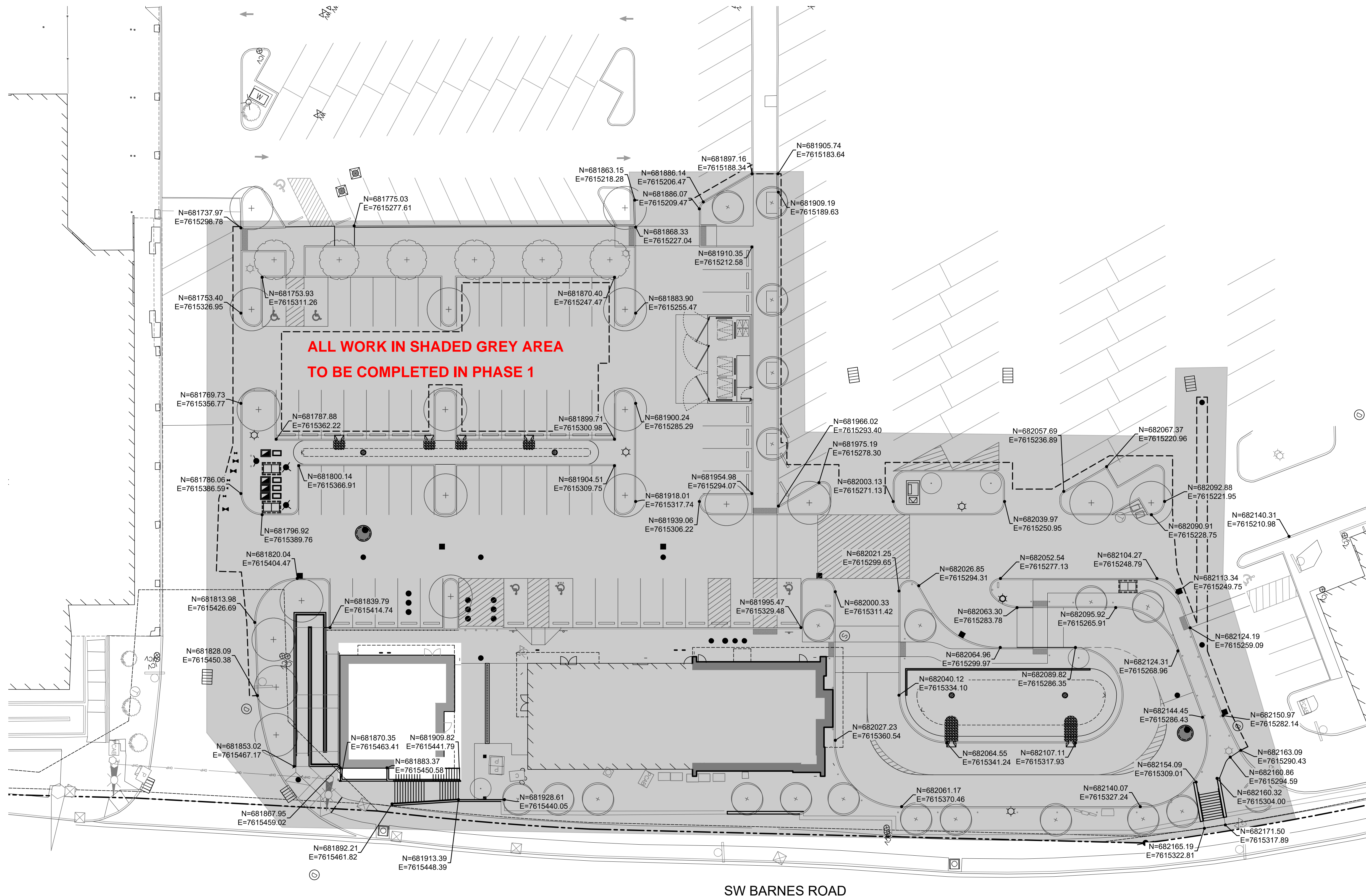
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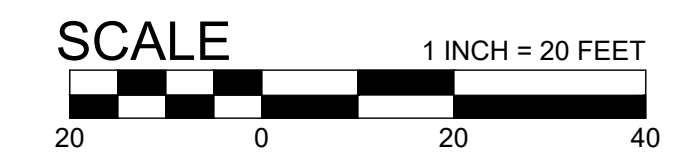
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PROPOSED
 PHASE 2
 STATION PLAN

C2.1
 DESIGN REVIEW



STATION AND STRIPING PLAN
 SCALE: 1" = 20'



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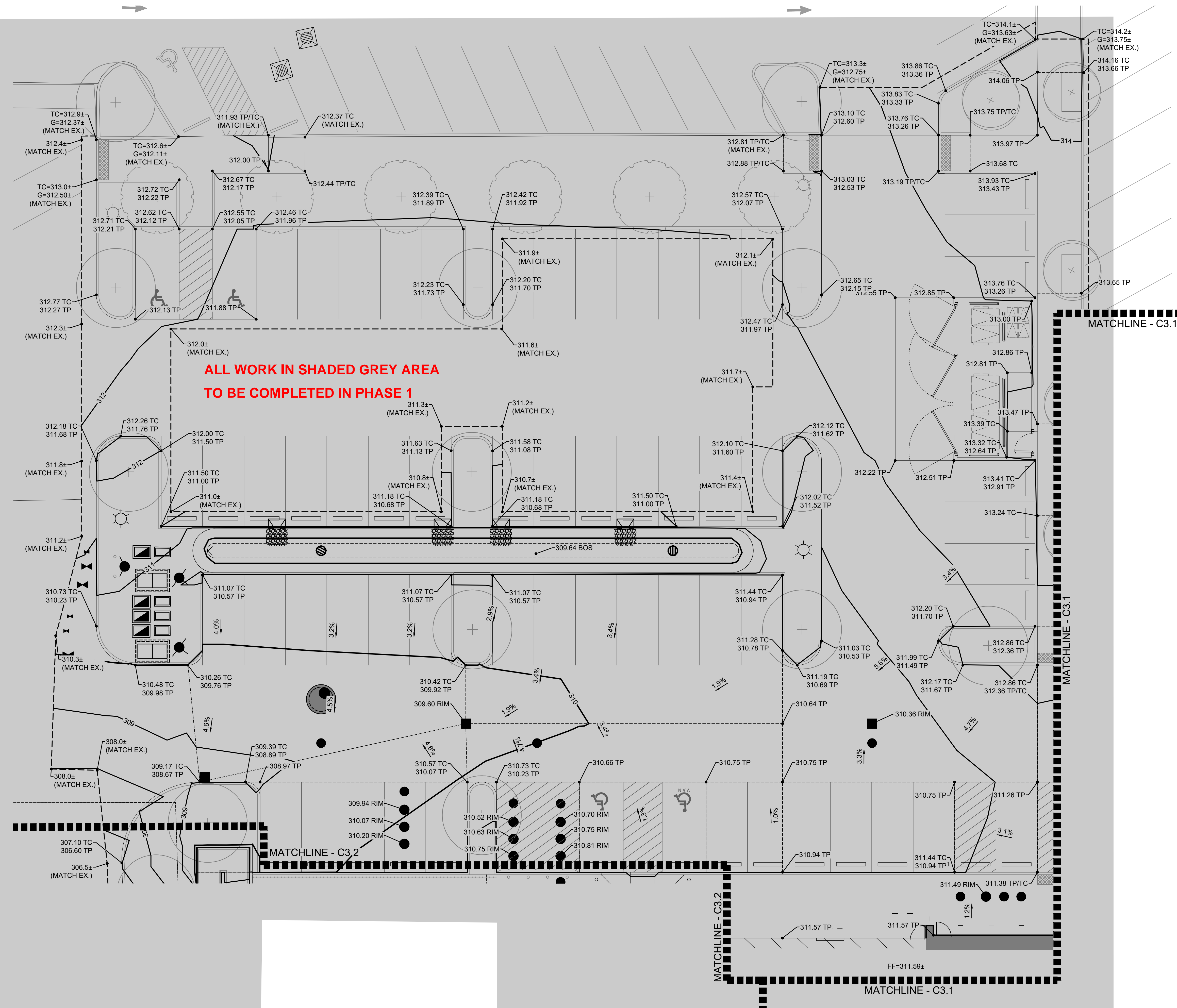
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 PROPOSED
 PHASE 2
 GRADING PLAN

C3.0
 DESIGN REVIEW



SHEET NOTES

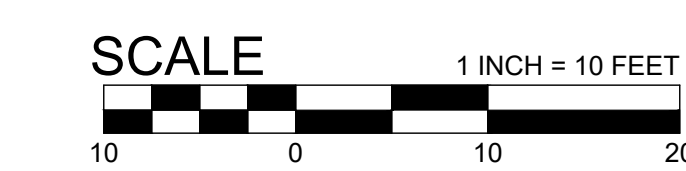
1. SLOPES PROVIDED ON SLOPE ARROW ARE FOR REFERENCE ONLY.
2. LANDINGS ON ACCESSIBLE ROUTES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
3. ALL ACCESSIBLE ROUTES SHALL COMPLY WITH CURRENT ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES (ADAAG).
4. BLDG THRESHOLD TRANSITION: TOP OF CONCRETE OUTSIDE DOOR = FF ELEV. MINUS 0.02'. SLOPE CONCRETE 1.5% AWAY FROM BLDG.

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
BOS	BOTTOM OF SWALE
BOW	BACK OF WALK
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
HP	HIGH POINT
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
TS	TOP OF STEP
TW	TOP WALL

SHEET LEGEND

	DRAINAGE FLOW DIRECTION
	GRADE BREAK
49	EX. CONTOUR MINOR
50	EX. CONTOUR MAJOR
49	CONTOUR MINOR (FG)
50	CONTOUR MAJOR (FG)



SHEET NOTES

- SLOPES PROVIDED ON SLOPE ARROW ARE FOR REFERENCE ONLY.
- LANDINGS ON ACCESSIBLE ROUTES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
- ALL ACCESSIBLE ROUTES SHALL COMPLY WITH CURRENT ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES (ADAAG).
- BLDG THRESHOLD TRANSITION: TOP OF CONCRETE OUTSIDE DOOR = FF ELEV. MINUS 0.02'. SLOPE CONCRETE 1.5% AWAY FROM BLDG.

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
BOS	BOTTOM OF SWALE
BOW	BACK OF WALK
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
EG	EXISTING GRADE
FF	FINISHED FLOOR
FL	FLOW LINE
G	GUTTER
HP	HIGH POINT
LP	LOW POINT
RIM	RIM OF STRUCTURE
TC	TOP OF CURB
TG	TOP OF GROUND
TP	TOP OF PAVEMENT
TS	TOP OF STEP
TW	TOP WALL

SHEET LEGEND

	DRAINAGE FLOW DIRECTION
	GRADE BREAK
	EX. CONTOUR MINOR
	EX. CONTOUR MAJOR
	CONTOUR MINOR (FG)
	CONTOUR MAJOR (FG)

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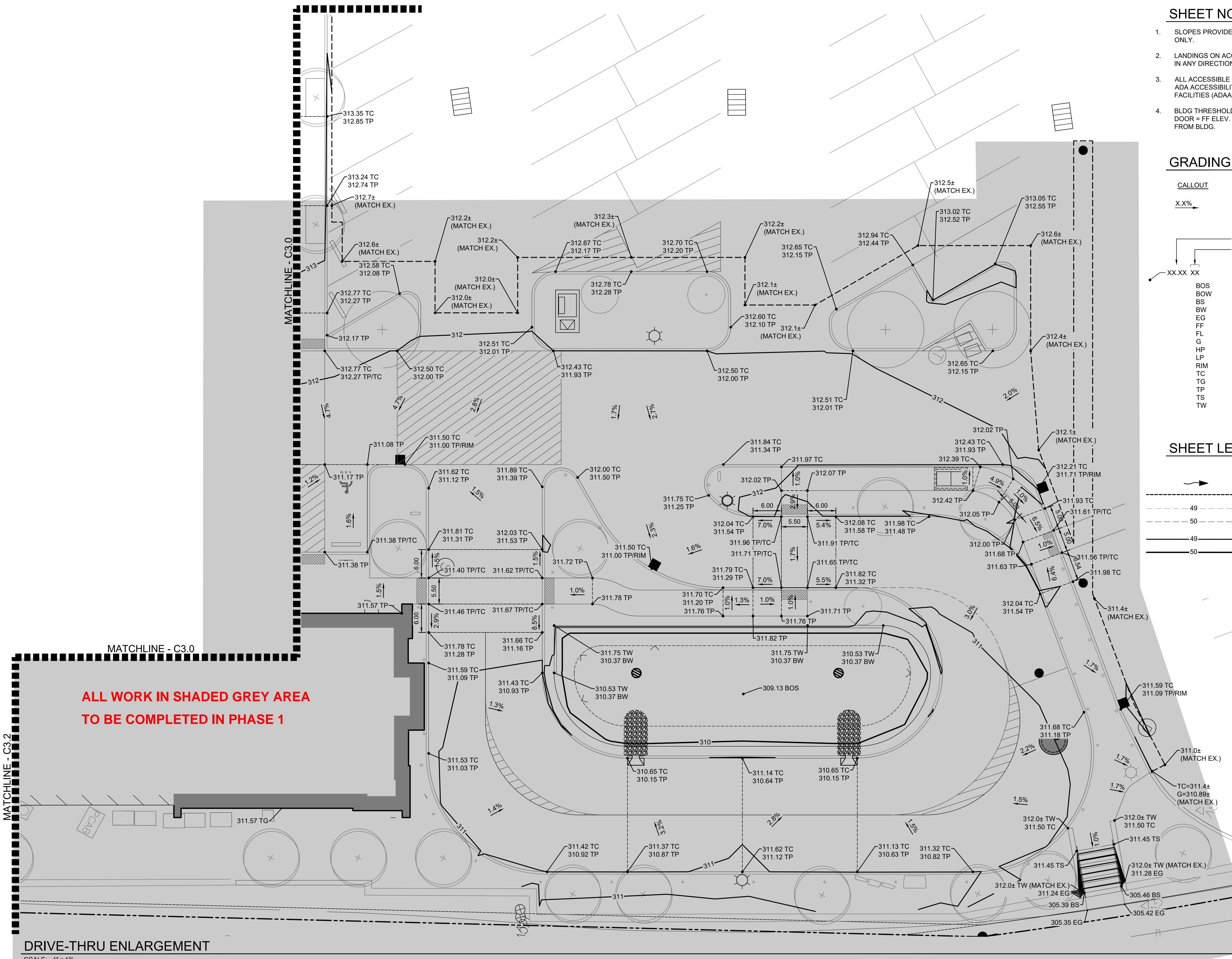
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 PHASE 2
 GRADING PLAN

C3.1
 DESIGN REVIEW



**ALL WORK IN SHADED GREY AREA
 TO BE COMPLETED IN PHASE 1**

DRIVE-THRU ENLARGEMENT

SCALE: 1" = 10'



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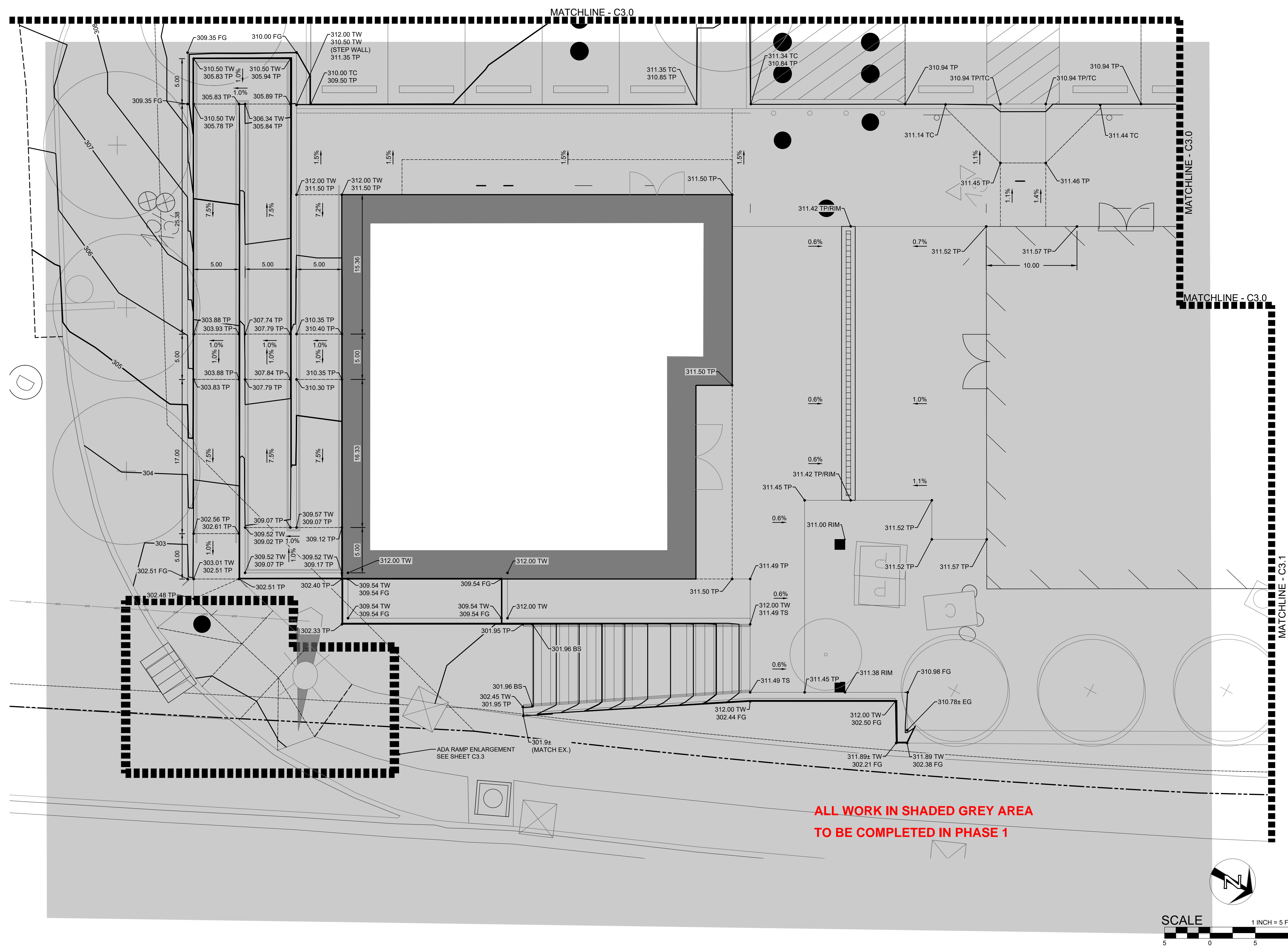
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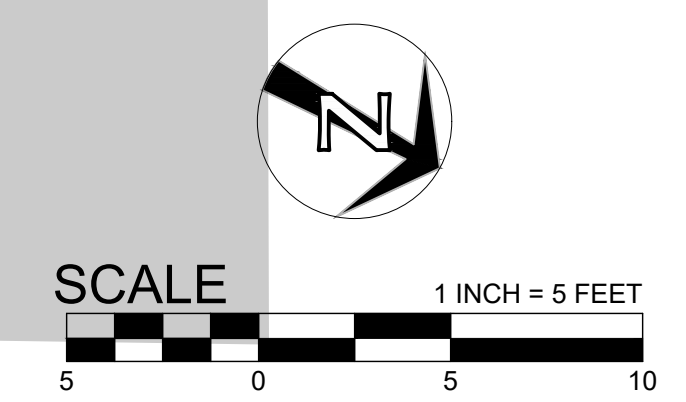
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PROPOSED
 PHASE 2
 GRADING
 ENLARGEMENT
C3.2
 DESIGN REVIEW



**ALL WORK IN SHADED GREY AREA
 TO BE COMPLETED IN PHASE 1**



KEY NOTES

- COORDINATE WATER SERVICE POINT OF CONNECTION TO EXISTING 8" MAIN WITH TVWD.
- FIELD VERIFY LOCATION AND IE OF EXISTING 8" PRIVATE SANITARY SEWER. CONNECT PROPOSED LATERAL TO PRIVATE SEWER MAIN WITH PVC GASKETED SADDLE.
- FIELD VERIFY LOCATION AND IE OF EXISTING 12" STORM SEWER. CONNECT PROPOSED LATERAL TO MAIN WITH TEE PER DETAIL 1/C5.1.
- NOT USED
- FIELD VERIFY LOCATION AND IE OF EXISTING 12" STORM SEWER. CONNECT PROPOSED LATERAL TO MAIN WITH COTG.
- CONTRACTOR TO COORDINATE WITH PGE FOR THE INSTALLATION OF THE TRANSFORMER. RELOCATE ADJACENT UTILITIES AS NECESSARY.
- CONTRACTOR TO COORDINATE WITH PGE FOR THE INSTALLATION OF THE TRANSFER VAULT.

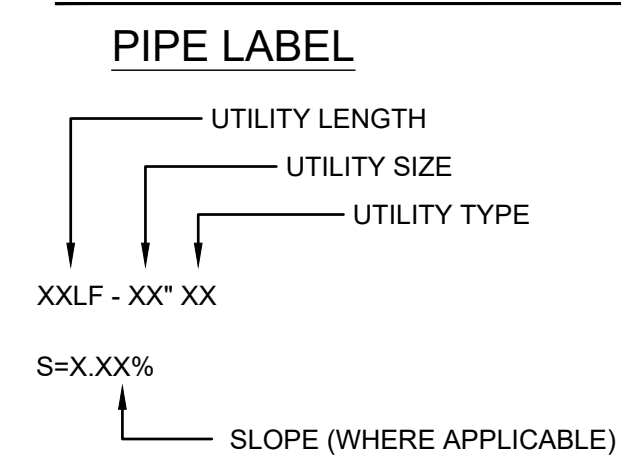
SHEET LEGEND

- DOUBLE CHECK DETECTOR VAULT 801
C5.6
- DOUBLE CHECK VALVE ASSEMBLY 2 605
C5.1 C5.6
- CONNECT TO WASTE LINE. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.
- CONNECT TO STORM DRAIN. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AND IE AS NOTED.
- CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.
- UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O.
- CONNECT TO ROOF DRAIN. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AND IE AS NOTED. 7
C5.2
- CONNECT TO BUILDING FIRE PROTECTION SYSTEM. COORDINATE WITH FIRE SPRINKLER DEFERRED SUBMITTAL.
- CONNECT TO WALL FOUNDATION DRAIN. SEE STRUCTURAL PLANS FOR CONTINUATION. SIZE AS NOTED.

SHEET NOTES

- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 1/C5.2.
- STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.
- CONTRACTOR TO VERIFY TIE-IN ELEVATION AND COMMUNICATE ANY DISCREPANCIES TO THE ENGINEER OF RECORD.
- REFERENCE SHEET C4.2 FOR UTILITY STRUCTURE TABLE
- REFERENCE SHEET C4.3 FOR FIRE PROTECTION PLAN
- 2" VENTING PIPE SHALL BE PROVIDED BETWEEN GREASE INTERCEPTOR VAULT AND BUILDING. COORDINATE VENTING AS REQUIRED PER OREGON PLUMBING CODE.

UTILITY LABEL LEGEND



STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AB	ACCESS BASIN	9 C5.2
AD	AREA DRAIN	11 C5.2
BEND	BEND, USE FITTING IF APPLICABLE	4 C5.2
CB	TRAPPED CATCH BASIN	4 C5.2
COTG	CLEANOUT TO GRADE	2 C5.2
CONN	CONNECTION	380 C5.5
FCMH	FLOW CONTROL MANHOLE	8 C5.5
FDC	FIRE DEPARTMENT CONNECTION	8 C5.1
FH	FIRE HYDRANT	502 C5.6
GV	GATE VALVE	
LP	LIGHT POLE, PER LIGHTING PLAN	
MH	MANHOLE	
OUTFALL	OUTFALL	3 C5.2
OVERFLOW	OVERFLOW INLET	1 C5.5
STUB	STUB	2 C5.5
TD	TRENCH DRAIN	5 C5.2
TEE	TEE CONNECTION	
WYE	WYE CONNECTION	
GI STRATA-1500	STRATA 1500 GREASE INTERCEPTOR	9 C5.1
GI GB-75	75 GPM GREASE INTERCEPTOR	6 C5.1
WM	WATER METER	605 C5.6
BWV	BACKWATER VALVE	14 C5.2

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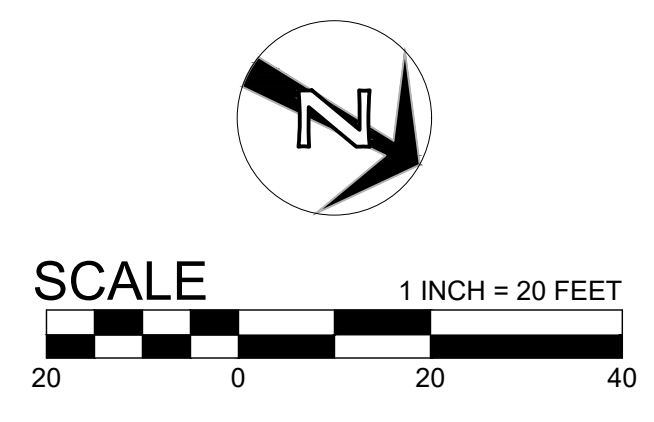
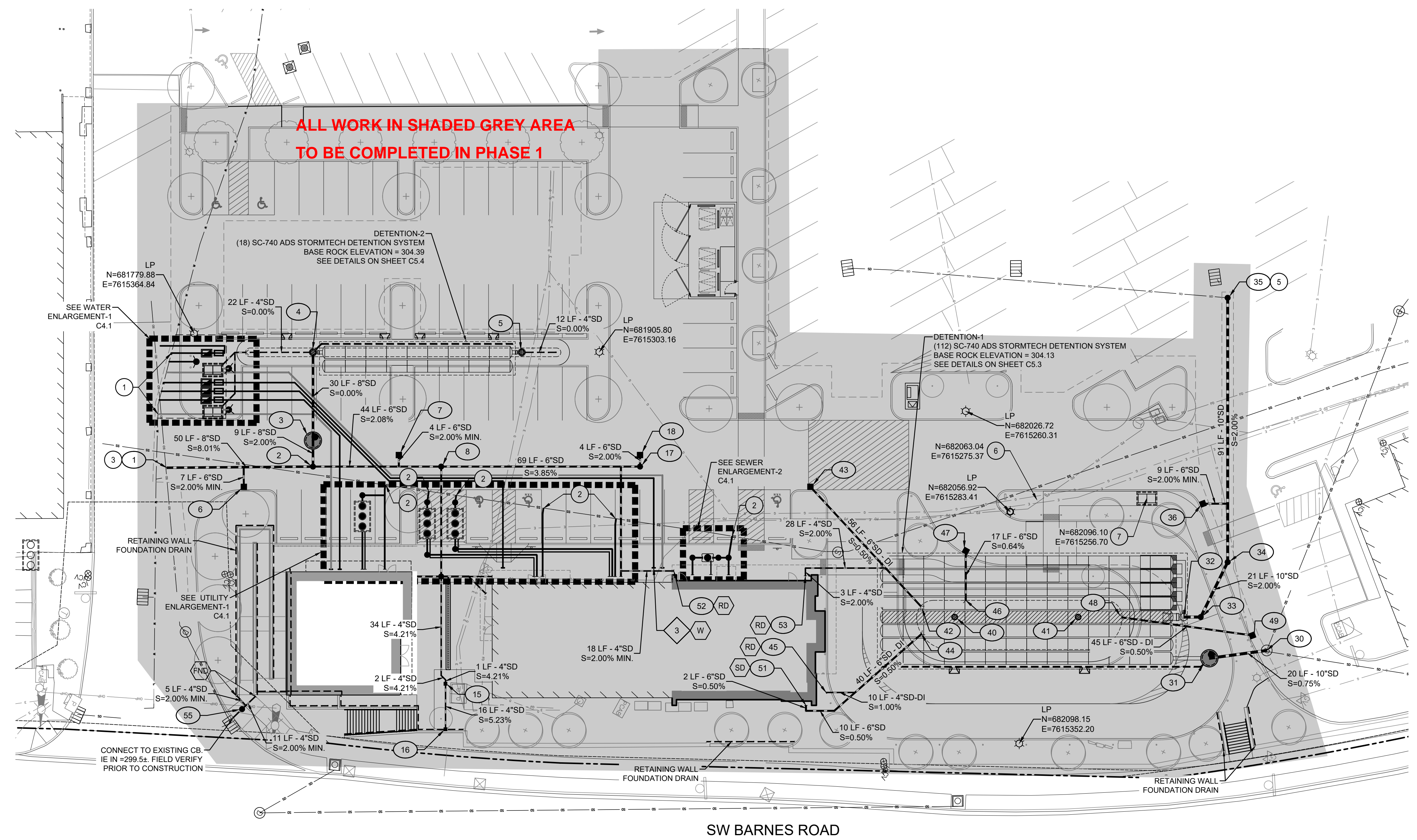
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**PROPOSED
 PHASE 2
 UTILITY PLAN**

**C4.0
 DESIGN REVIEW**



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SHEET NOTES

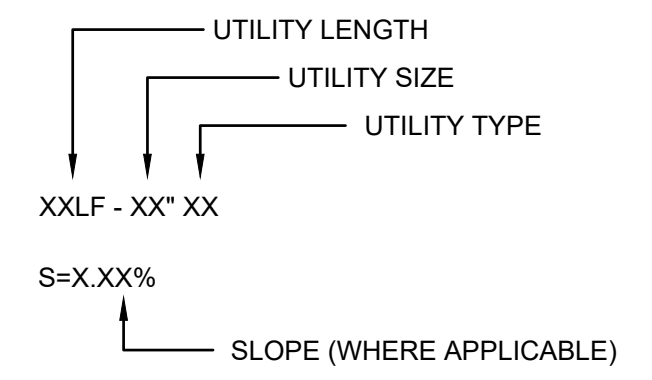
- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 1/C5.2.
- STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.
- CONTRACTOR TO VERIFY TIE-IN ELEVATION AND COMMUNICATE ANY DISCREPANCIES TO THE ENGINEER OF RECORD.
- REFERENCE SHEET C4.2 FOR UTILITY STRUCTURE TABLE
- 2" VENTING PIPE SHALL BE PROVIDED BETWEEN GREASE INTERCEPTOR VAULT AND BUILDING. COORDINATE VENTING AS REQUIRED PER OREGON PLUMBING CODE.

KEY NOTES

- TVWD TO INSTALL 2" SERVICE AND 1.5" WATER METER
- REFERENCE SHEET C4.3 FOR FIRE LINE HOT TAP INSTRUCTIONS
- CONTRACTOR TO INSTALL BACKFLOW PER TVWD DETAIL 605
- REFERENCE SHEET C4.3 FOR FIRE PROTECTION PLAN
- CONTRACTOR TO COORDINATE WITH TVWD FOR FH CONNECTION

UTILITY LABEL LEGEND

PIPE LABEL

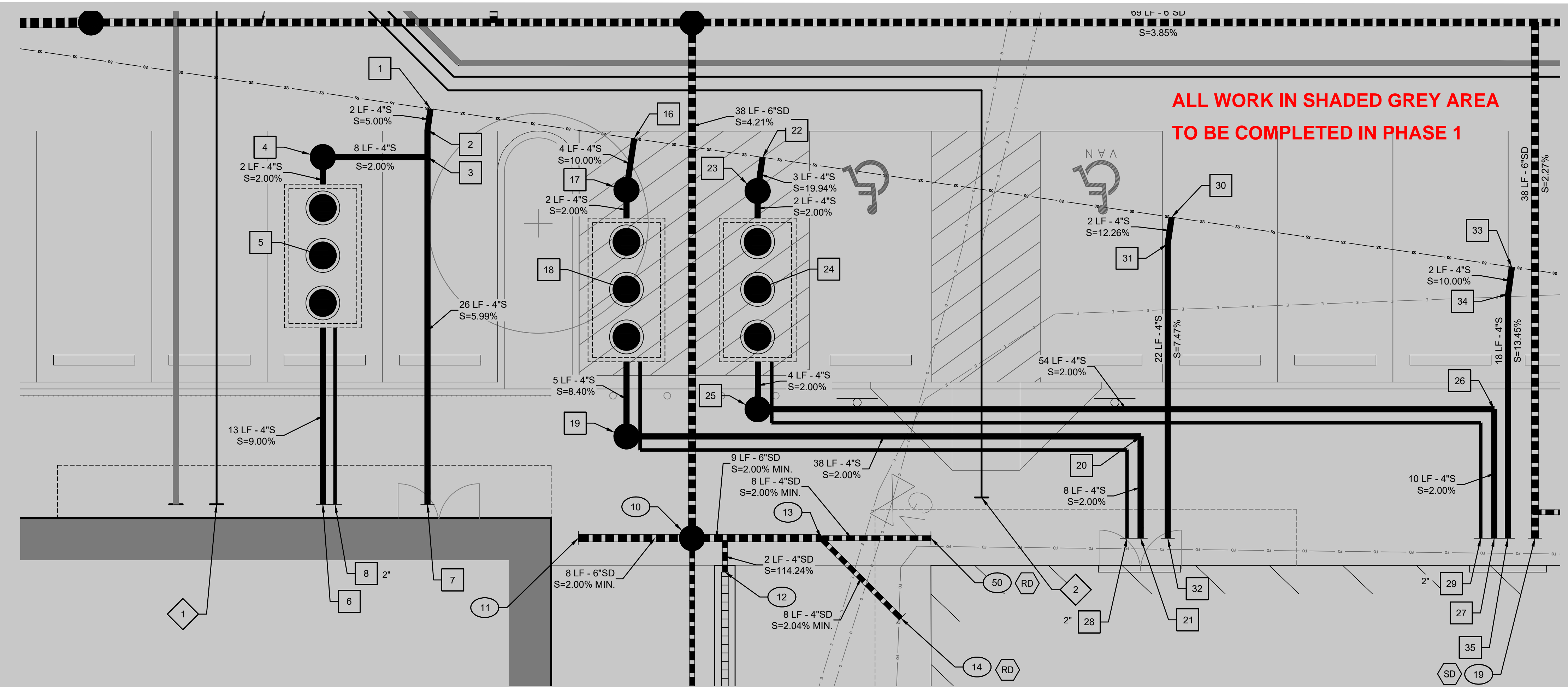
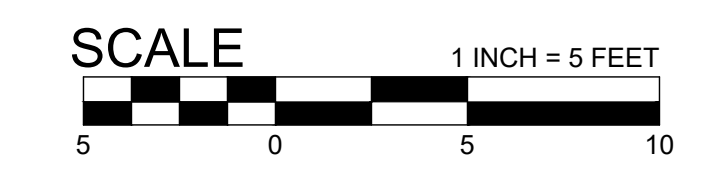
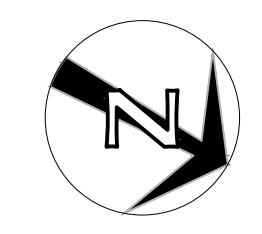


STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
AB	ACCESS BASIN	9 C5.2
AD	AREA DRAIN	11 C5.2
BEND	BEND, USE FITTING IF APPLICABLE	4 C5.2
CB	TRAPPED CATCH BASIN	4 C5.2
COTG	CLEANOUT TO GRADE	2 C5.2
CONN	CONNECTION	360 C5.5
FCMH	FLOW CONTROL MANHOLE	9 C5.5
FDC	FIRE DEPARTMENT CONNECTION	9 C5.1
FH	FIRE HYDRANT	502 C5.6
GV	GATE VALVE	
MH	MANHOLE	
OUTFALL	OUTFALL	3 C5.2
OVERFLOW	OVERFLOW INLET	1 C5.5
STUB	STUB	2 C5.5
TD	TRENCH DRAIN	5 C5.2
TEE	TEE CONNECTION	
WYE	WYE CONNECTION	
GI STRATA-1500	STRATA 1500 GREASE INTERCEPTOR	9 C5.1
GI GB-75	75 GPM GREASE INTERCEPTOR	6 C5.1
WM	WATER METER	605 C5.6

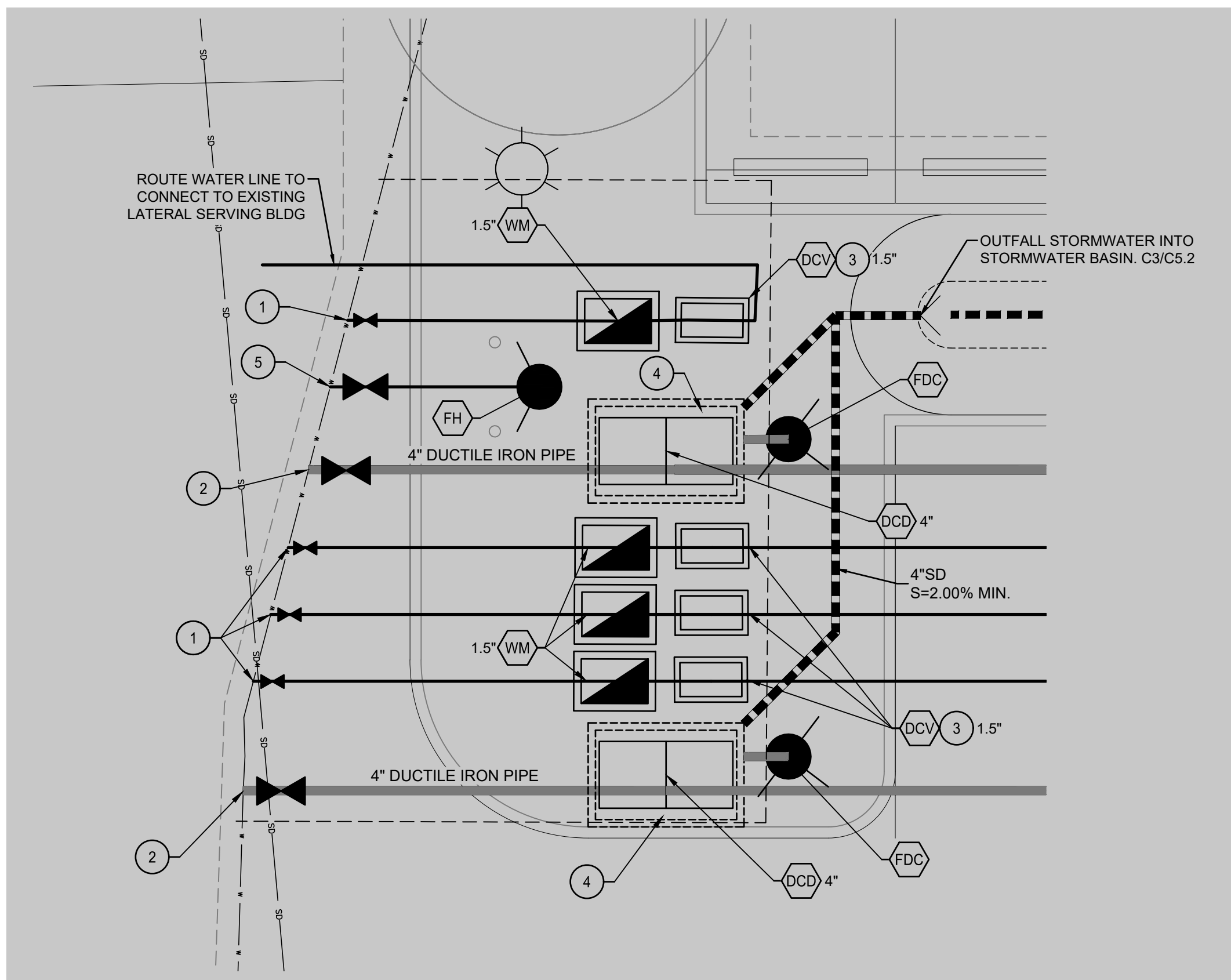
SHEET LEGEND

- DCD DOUBLE CHECK DETECTOR VAULT 801 C5.6
- DCV DOUBLE CHECK VALVE ASSEMBLY 2 C5.1, 605 C5.6
- S CONNECT TO WASTE LINE. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.
- SD CONNECT TO STORM DRAIN. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AND IE AS NOTED.
- W CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.
- !! UTILITY CROSSING. PROVIDE 12" MIN. CLEARANCE, U.N.O.
- RD CONNECT TO ROOF DRAIN. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AND IE AS NOTED.
- FP CONNECT TO BUILDING FIRE PROTECTION SYSTEM. COORDINATE WITH FIRE SPRINKLER DEFERRED SUBMITTAL.



UTILITY ENLARGEMENT-1

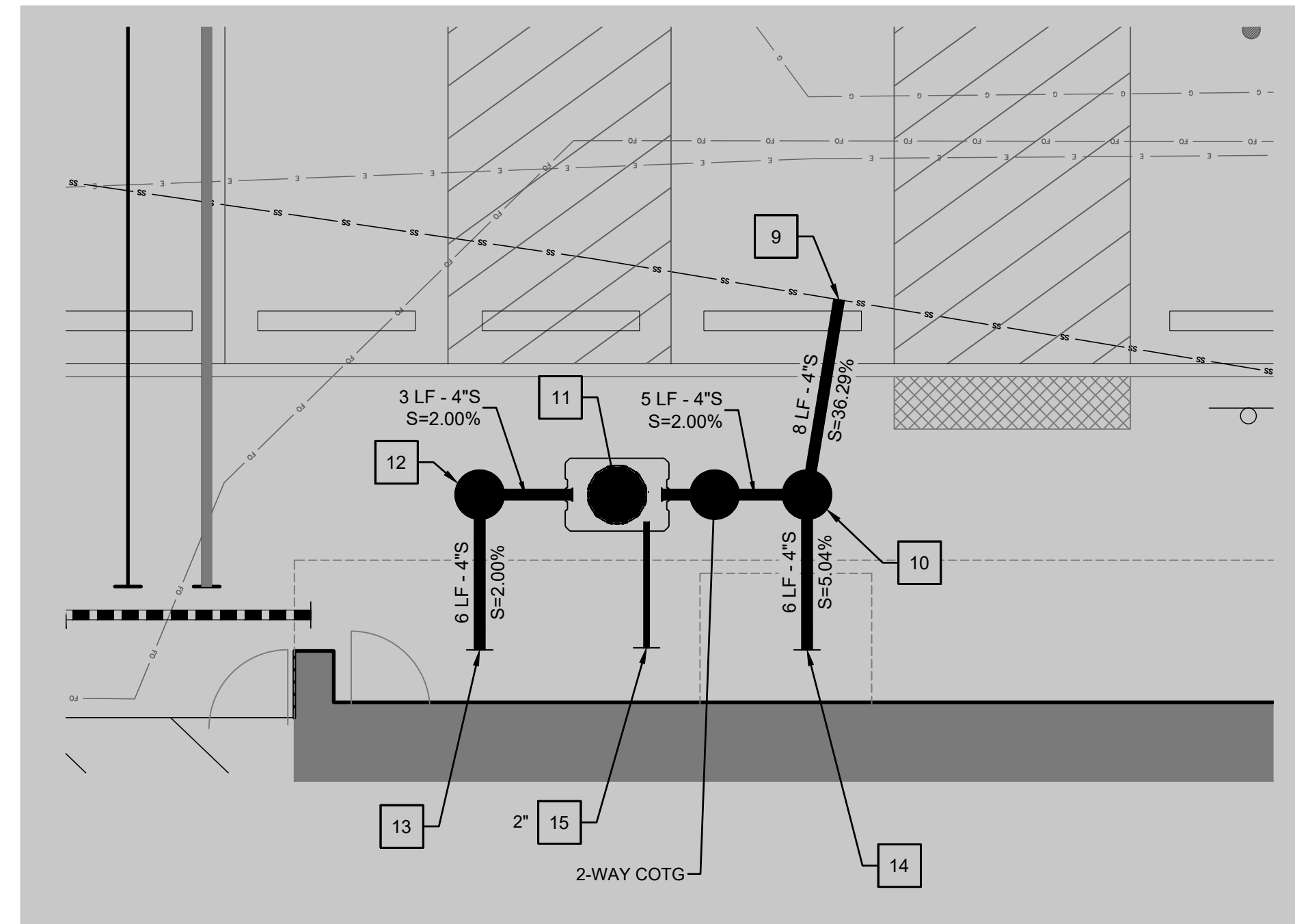
SCALE: 1" = 5'



THE PROJECT IS ASSOCIATED WITH TVWD PERMIT NUMBER E8388

WATER ENLARGEMENT-1

SCALE: 1" = 5'



SEWER ENLARGEMENT-1

SCALE: 1" = 5'

SS STRUCTURE TABLE XX

KEYNOTE	STRUCTURE ID	NORTHING	EASTING	RIM ELEVATION	INVERT ELEVATIONS
1	CONN-1	681863.05	7615379.04	--	IE 8"(IN) = 306.52 (S) IE 4"(IN) = 306.69 (E) IE 8"(OUT) = 306.52 (N)
2	BEND-1	681863.60	7615380.52	--	IE 4"(IN) = 306.77 (NE) IE 4"(OUT) = 306.77 (W)
3	NODE-1	681864.56	7615382.27	--	IE 4"(IN) = 306.87 (SE) IE 4"(IN) = 306.87 (NE) IE 4"(OUT) = 306.87 (SW)
4	COTG-2 (TWO-WAY)	681857.79	7615385.98	--	IE 4"(IN) = 307.02 (NE) IE 4"(OUT) = 307.02 (NW)
5	GI STRATA 1500-1	681861.27	7615392.34	310.07	IE 4"(IN) = 307.23 (NE) IE 4"(OUT) = 307.06 (SW)
6	GI STUB-1	681870.08	7615408.41	--	IE 4"(OUT) = 308.40 (SW)
7	SS STUB-1	681876.85	7615404.71	--	IE 4"(OUT) = 308.40 (SW)
8	GI VENT-1	681870.87	7615407.98	--	IE 2"(IN) = 308.00 (SW)
9	CONN-2	681976.67	7615337.00	--	IE 8"(IN) = 305.31 (S) IE 4"(IN) = 305.47 (E) IE 8"(OUT) = 305.31 (N)
10	COTG-3	681979.17	7615344.10	--	IE 4"(IN) = 308.20 (SE) IE 4"(IN) = 308.20 (NE) IE 4"(OUT) = 308.20 (W)
11	GI GB-75	681972.82	7615347.58	311.49	IE 4"(IN) = 308.31 (SE) IE 4"(OUT) = 308.31 (NW)
12	COTG-4	681968.23	7615350.10	--	IE 4"(IN) = 308.38 (NE) IE 4"(OUT) = 308.38 (NW)
13	GI STUB-2	681971.07	7615355.28	--	IE 4"(OUT) = 308.50 (SW)
14	SS STUB-2	681982.01	7615349.29	--	IE 4"(OUT) = 308.50 (SW)
15	GI VENT-2	681976.61	7615352.16	--	IE 2"(IN) = 307.90 (SW)
16	CONN-3	681877.27	7615373.76	--	IE 8"(IN) = 306.37 (S) IE 4"(IN) = 306.54 (E) IE 8"(OUT) = 306.37 (N)
17	COTG-5 (TWO-WAY)	681878.59	7615377.34	--	IE 4"(IN) = 306.92 (NE) IE 4"(OUT) = 306.92 (W)
18	GI STRATA-1500-2	681882.11	7615383.78	310.63	IE 4"(IN) = 307.13 (NE) IE 4"(OUT) = 306.96 (SW)
19	COTG-6	681887.31	7615393.27	--	IE 4"(IN) = 307.59 (NW) IE 4"(OUT) = 307.59 (SW)
20	NODE-2	681920.56	7615375.07	--	IE 4"(IN) = 308.35 (NE) IE 4"(OUT) = 308.35 (SE)
21	GI-STUB-3	681924.16	7615381.65	--	IE 4"(OUT) = 308.50 (SW)
22	CONN-4	681886.24	7615370.42	--	IE 8"(IN) = 306.27 (S) IE 4"(IN) = 306.44 (E) IE 8"(OUT) = 306.27 (N)
23	COTG-7 (TWO-WAY)	681887.11	7615372.77	--	IE 4"(IN) = 306.94 (NE) IE 4"(OUT) = 306.94 (W)
24	GI STRATA-1500-3	681890.59	7615379.13	310.75	IE 4"(IN) = 307.15 (NE) IE 4"(OUT) = 306.98 (SW)
25	COTG-8	681894.83	7615386.87	--	IE 4"(IN) = 307.22 (NW) IE 4"(OUT) = 307.22 (SW)
26	NODE-3	681942.47	7615360.79	--	IE 4"(IN) = 308.31 (NE) IE 4"(OUT) = 308.31 (SE)
27	GI-STUB-4	681947.03	7615369.12	--	IE 4"(OUT) = 308.50 (SW)
28	GI VENT-3	681923.28	7615382.13	--	IE 2"(OUT) = 310.11 (SW)
29	GI VENT-4	681946.15	7615369.60	--	IE 2"(OUT) = 310.04 (SW)
30	CONN-5	681914.81	7615359.81	--	IE 8"(IN) = 305.97 (S) IE 4"(IN) = 306.14 (E) IE 8"(OUT) = 305.97 (N)
31	NODE-4	681915.50	7615361.67	--	IE 4"(IN) = 306.38 (NE) IE 4"(OUT) = 306.38 (W)
32	STUB-3	681925.91	7615380.68	--	IE 4"(OUT) = 308.00 (SW)
33	CONN-6	681938.58	7615351.00	--	IE 8"(IN) = 305.72 (S) IE 4"(IN) = 305.88 (E) IE 8"(OUT) = 305.72 (N)
34	NODE-5	681939.28	7615352.84	--	IE 4"(IN) = 306.08 (NE) IE 4"(OUT) = 306.08 (W)
35	SS STUB-4	681947.91	7615368.64	--	IE 4"(OUT) = 308.50 (SW)

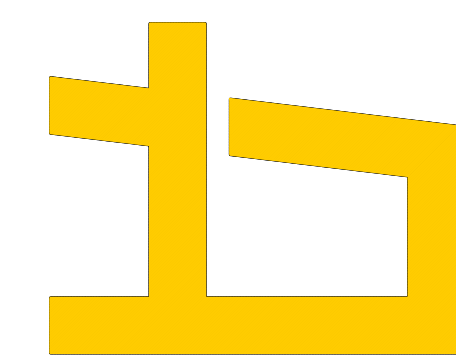
SD STRUCTURE TABLE XX

KEYNOTE	STRUCTURE ID	NORTHING	EASTING	RIM ELEVATION	INVERT ELEVATIONS
1	CONN-1	681793.94	7615410.09	--	IE 8"(IN) = 300.17 (NW)
2	COTG-1	681838.04	7615385.48	--	IE 8"(IN) = 304.21 (SW) IE 6"(IN) = 304.21 (NW) IE 8"(OUT) = 304.21 (SE)
3	FCMH-1	681833.72	7615377.59	309.56	IE 8"(IN) = 304.39 (SW) IE 8"(OUT) = 304.39 (NE)
4	OVERFLOW-1	681819.07	7615350.84	309.64	IE 4"(IN) = 307.60 (SE) IE 12"(IN) = 304.99 (NW) IE 6"(IN) = 304.39 (W) IE 8"(OUT) = 304.39 (NE)
5	OVERFLOW-2	681882.36	7615316.17	309.64	IE 4"(IN) = 307.60 (NW) IE 12"(OUT) = 304.99 (SE)
6	CB-1	681820.44	7615403.11	308.73	IE 6"(OUT) = 306.23 (SW)
7	CB-2	681862.15	7615367.72	309.60	IE 6"(OUT) = 307.10 (NE)
8	COTG-2	681876.90	7615364.20	--	IE 6"(IN) = 305.13 (NE) IE 6"(IN) = 305.13 (NW) IE 6"(OUT) = 305.13 (SE)
10	COTG-3	681895.16	7615397.53	--	IE 4"(IN) = 306.73 (NE) IE 6"(IN) = 308.14 (SE) IE 6"(IN) = 308.14 (NW) IE 6"(OUT) = 306.73 (SW)
11	STUB-1	681887.80	7615401.56	--	IE 6"(OUT) = 308.50 (NW)
12	TD-1	681898.47	7615398.55	311.42	IE 4"(OUT) = 309.38 (SW)
13	BEND-1	681903.49	7615392.97	--	IE 4"(IN) = 308.33 (N) IE 4"(IN) = 308.33 (NW) IE 6"(OUT) = 308.33 (SE)
14	STUB-2	681911.50	7615395.31	--	IE 4"(OUT) = 308.50 (S)
15	AD-1	681914.26	7615429.28	311.06	IE 4"(IN) = 308.56 (NE) IE 4"(OUT) = 308.32 (SW)
16	AD-2	681921.82	7615443.09	311.39	IE 4"(OUT) = 309.38 (SW)
17	COTG-5	681937.20	7615331.18	--	IE 6"(IN) = 307.78 (SW) IE 6"(OUT) = 307.78 (SE)
18	CB-3	681935.27	7615327.67	310.36	IE 6"(OUT) = 307.86 (NE)
19	STUB-3	681949.66	7615367.68	--	IE 6"(OUT) = 308.50 (SW)
20	NODE-2	681920.56	7615375.07	--	IE 4"(IN) = 308.35 (NE) IE 4"(OUT) = 308.35 (SE)

KEYNOTE	STRUCTURE ID	NORTHING	EASTING	RIM ELEVATION	INVERT ELEVATIONS
30	EXMH-1	682167.72	7615282.87	310.94	IE 10"(IN) = 303.98 (SE) IE 24"(IN) = 303.86 (W) IE 24"(OUT) = 303.54 (N)
31	FCMH-2	682141.64	7615294.77	310.99	IE 6"(IN) = 304.13 (E) IE 12"(IN) = 304.73 (SE) IE 10"(OUT) = 304.13 (NW)
32	AB-1	682127.01	7615286.54	311.02	IE 10"(IN) = 306.24 (NW) IE 24"(OUT) = 304.64 (SE) IE 12"(OUT) = 305.67 (SW)
33	COTG-6	682132.16	7615283.72	--	IE 10"(IN) = 306.36 (W) IE 10"(OUT) = 306.36 (SE)
34	COTG-7	682131.20	7615262.58	--	IE 10"(IN) = 306.78 (SW) IE 10"(OUT) = 306.78 (E)
35	COTG-8	682087.31	7615182.44	--	IE 12"(IN) = 308.61 (SE) IE 10"(OUT) = 308.61 (NE)
36	CB-4	682113.99	7615248.99	311.78	IE 6"(OUT) = 309.28 (NW)
40	OVERFLOW-3	682057.56	7615324.57	309.13	--
41	OVERFLOW-4	682095.02	7615304.06	309.13	--
42	OUTFALL-1	682045.46	7615326.89	--	IE 6"(IN) = 309.22 (S)
43	CB-5	681992.19	7615309.04	311.05	IE 6"(OUT) = 309.50 (N)
44	OUTFALL-2	682050.31	7615335.22	--	IE 6"(IN) = 309.24 (E)
45	STUB-4	682031.10	7615368.78	--	IE 4"(OUT) = 309.52 (NW)
46	OUTFALL-3	682058.18	7615317.65	--	IE 6"(IN) = 309.40 (SW)
47	CB-6	682049.97	7615302.66	311.01	IE 6"(OUT) = 309.51 (NE)
48	OUTFALL-4	682108.41	7615296.87	--	IE 6"(IN) = 309.31 (N)
49	CB-7	682150.86	7615280.71	311.03	IE 6"(OUT) = 309.54 (S)
50	STUB-5	681910.60	7615389.07	--	IE 4"(OUT) = 308.50 (SE)
51	STUB-6	682027.15	7615376.04	--	IE 6"(OUT) = 309.50 (NE)
52	STUB-7	681964.79	7615357.21	--	IE 4"(OUT) = 308.77 (SE)
53	STUB-8	682005.48	7615336.84	--	IE 4"(OUT) = 310.00 (SW)
54	OUTFALL-5	681798.74	7615362.02	--	IE 4"(IN) = 306.95 (SE)
55	BWV-1	681856.82	7615470.80	--	

W STRUCTURE TABLE XX

KEYNOTE	STRUCTURE ID	NORTHING	EASTING
1	STUB-1	681863.21	7615412.18
2	STUB-2	681912.44	7615384.65
3	STUB-3	681958.16	7615359.60



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Revisions

PK21052
Original Issue: 06.21.2023
Drawn/Check By: BLU/EME

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PROPOSED
PHASE 2 UTILITY
STRUCTURE
TABLE

C4.2
DESIGN REVIEW

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Revisions

SHEET NOTES

- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 1/C5.2.
- STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.
- CONTRACTOR TO VERIFY TIE-IN ELEVATION AND COMMUNICATE ANY DISCREPANCIES TO THE ENGINEER OF RECORD.






FP STRUCTURE TABLE

KEYNOTE	STRUCTURE ID	NORTHING	EASTING
1	STUB-1	681860.58	7615413.62
2	STUB-2	681960.79	7615358.16

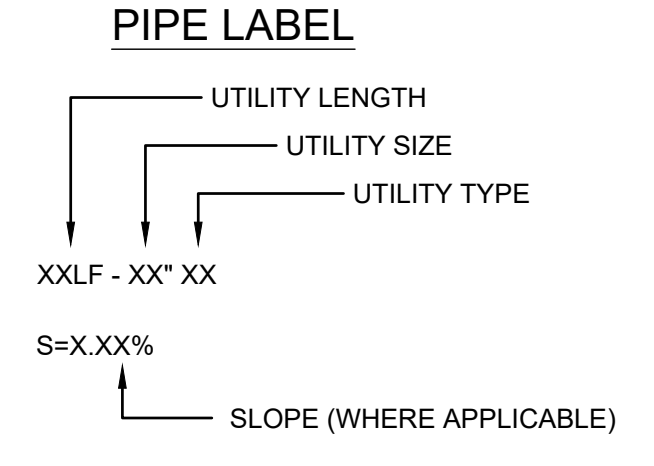
KEY NOTES

- COORDINATE WATER SERVICE POINT OF CONNECTION TO EXISTING 8" MAIN WITH TWWD.
- CONTRACTOR TO HOT TAP EXISTING WATERLINE WITH 8"X4" TAPPING SADDLE AND 4" FLGXMJ GATE VALVE PER TWWD DETAIL 302
- CONTRACTOR TO INSTALL 4" DCDA PER TWWD DETAIL 801

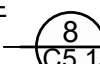
SHEET LEGEND

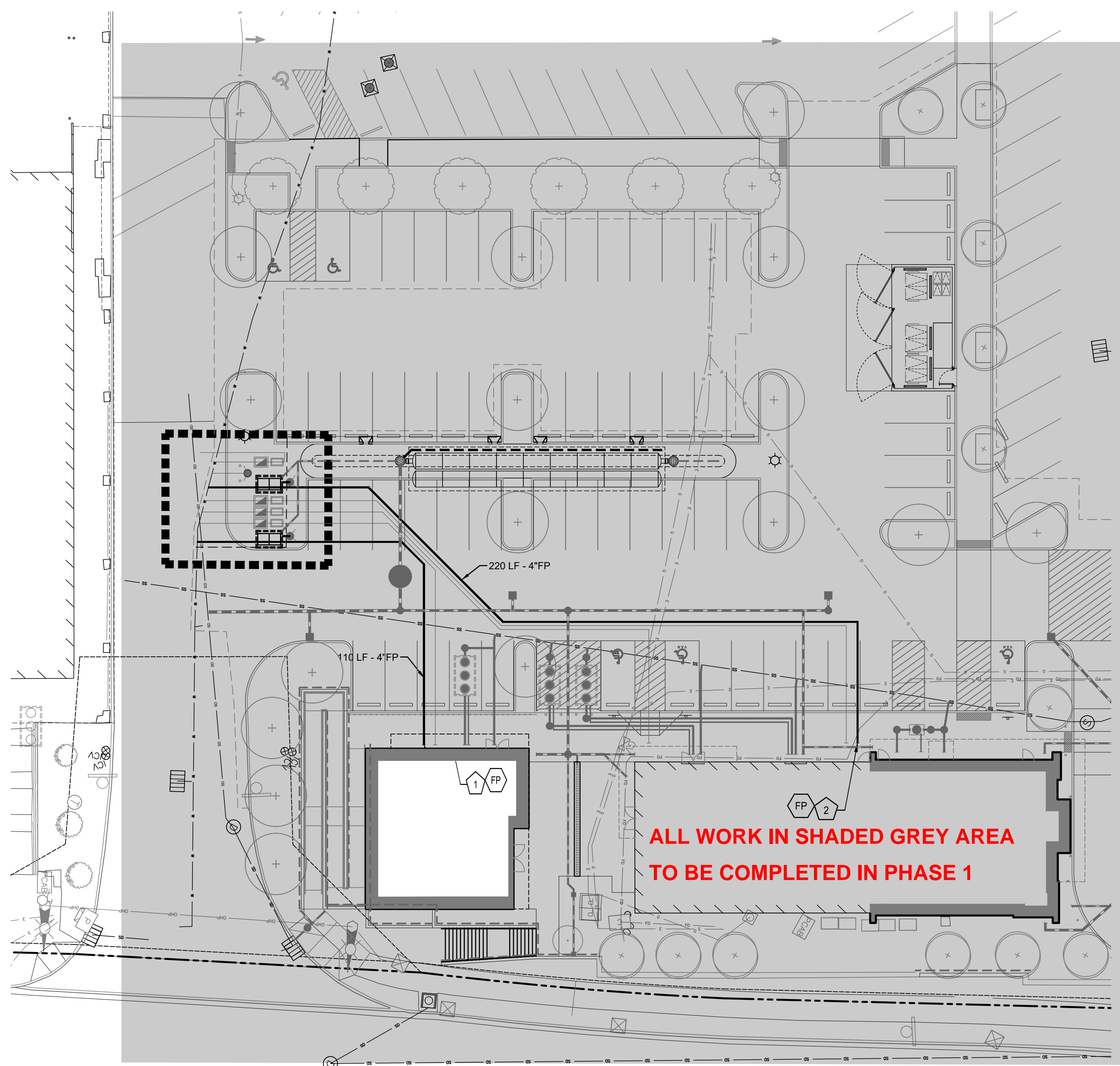
-  DOUBLE CHECK DETECTOR VAULT 
-  CONNECT TO BUILDING FIRE PROTECTION SYSTEM. COORDINATE WITH FIRE SPRINKLER DEFERRED SUBMITTAL.
-  FIRE DEPARTMENT CONNECTION 

UTILITY LABEL LEGEND

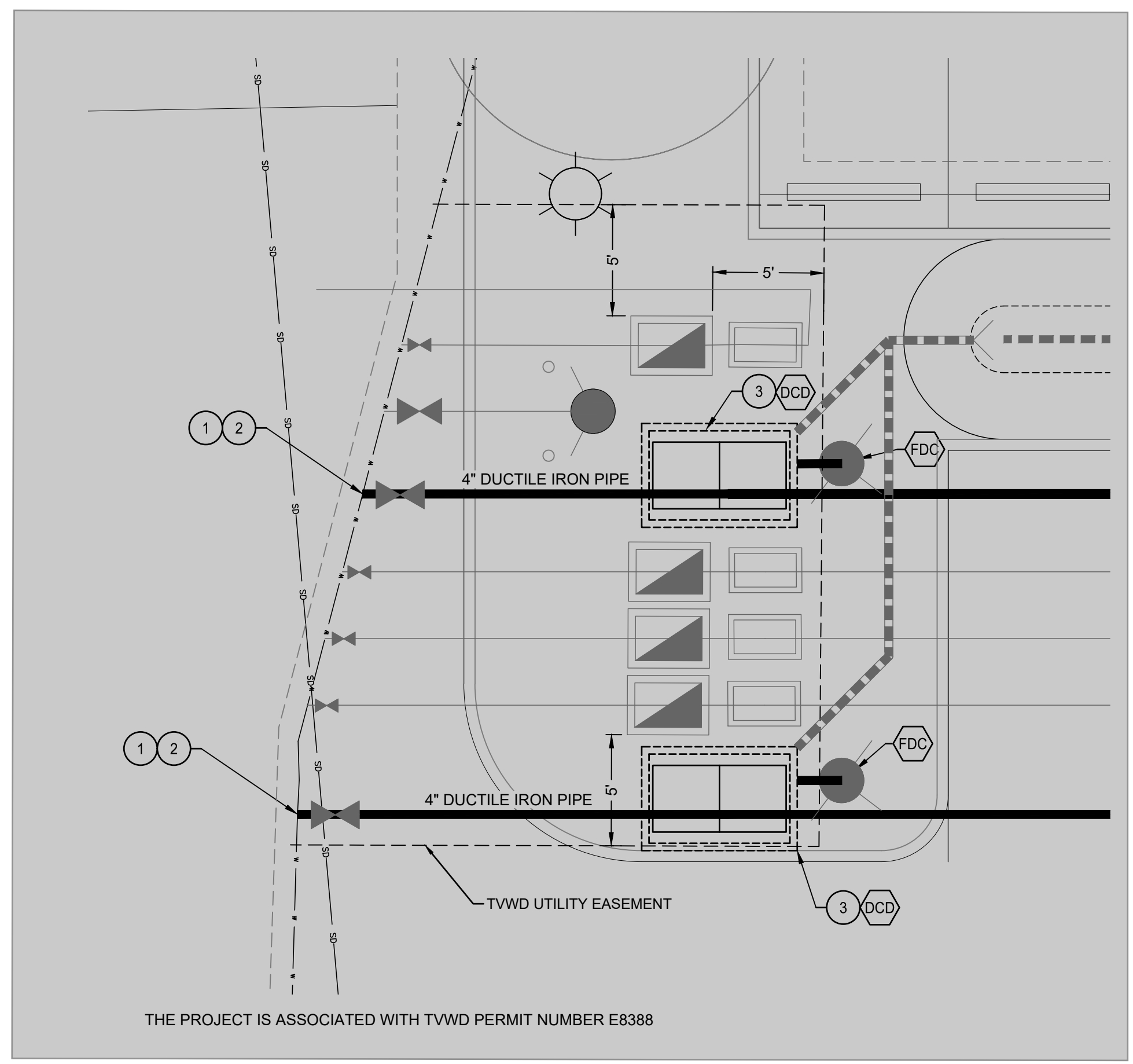


STRUCTURE TYPE

CALLOUT	DESCRIPTION	DETAIL REF.
BEND	BEND, USE FITTING IF APPLICABLE	
FDC	FIRE DEPARTMENT CONNECTION	
GV	GATE VALVE	
STUB	STUB	

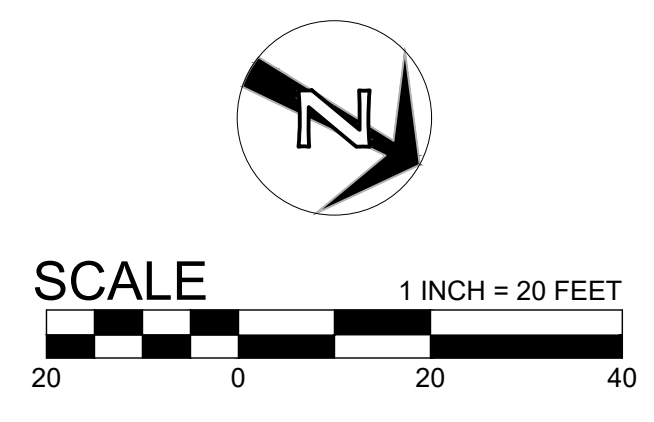


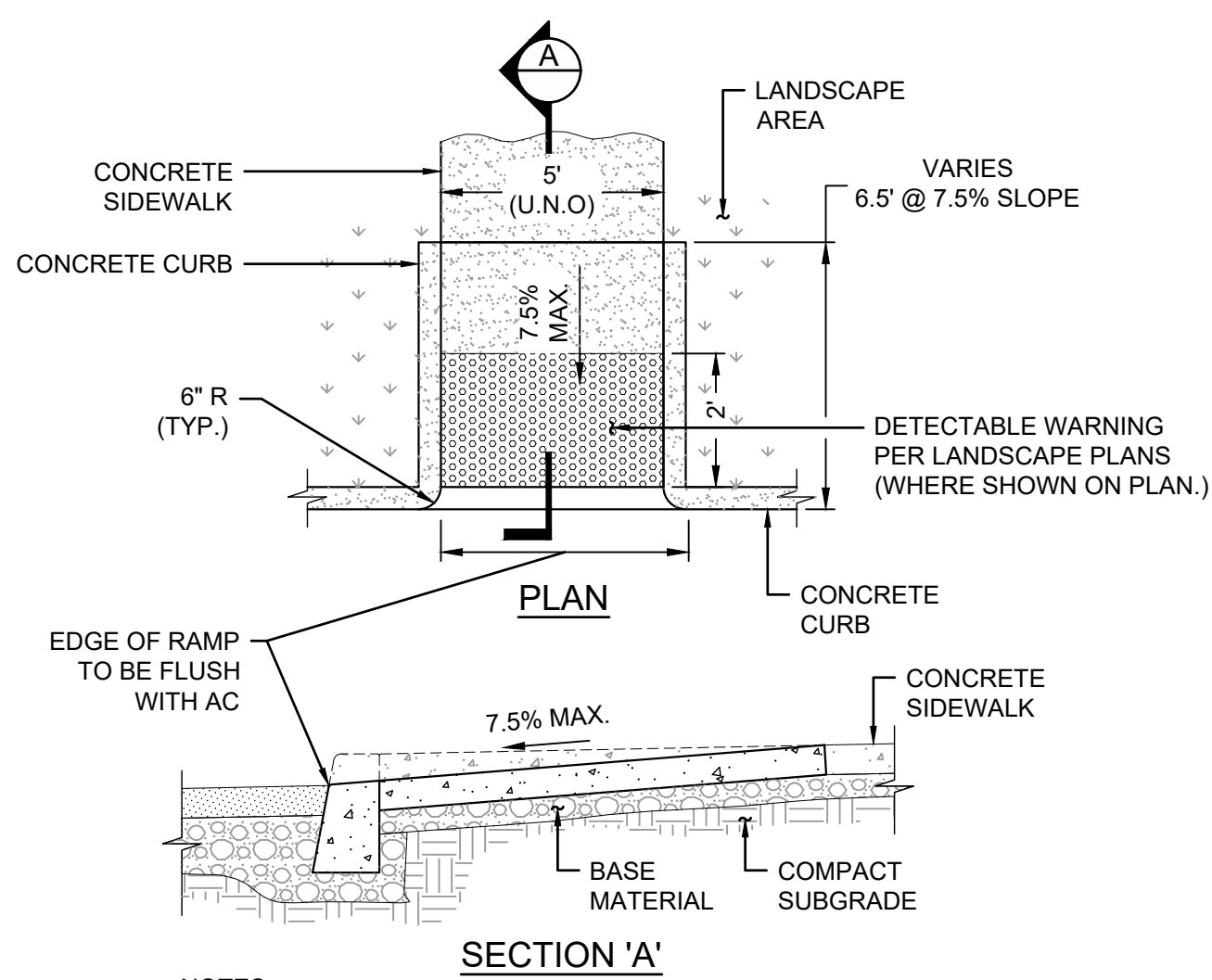
SW BARNES ROAD



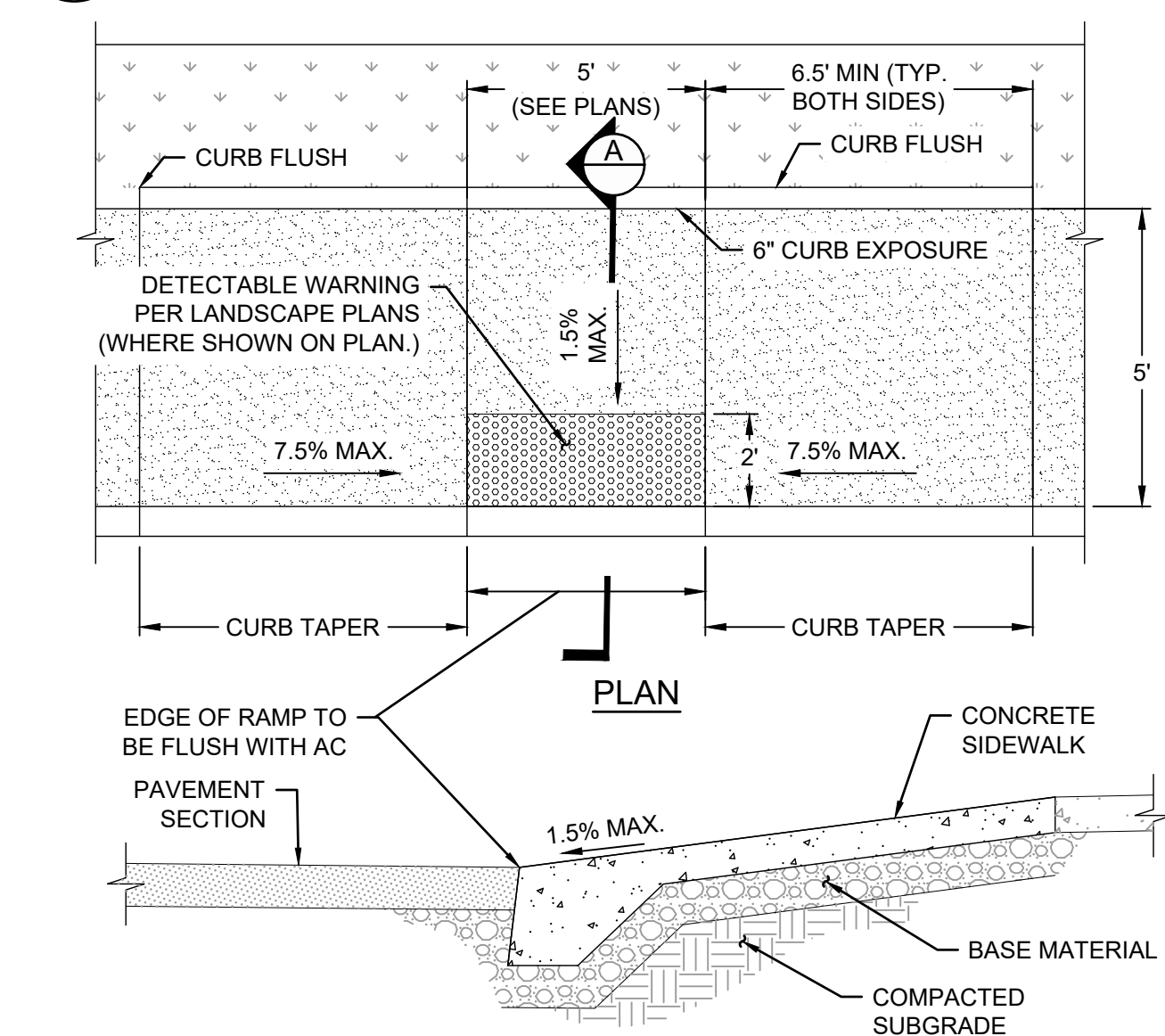
WATER ENLARGEMENT-1

SCALE: 1" = 5'

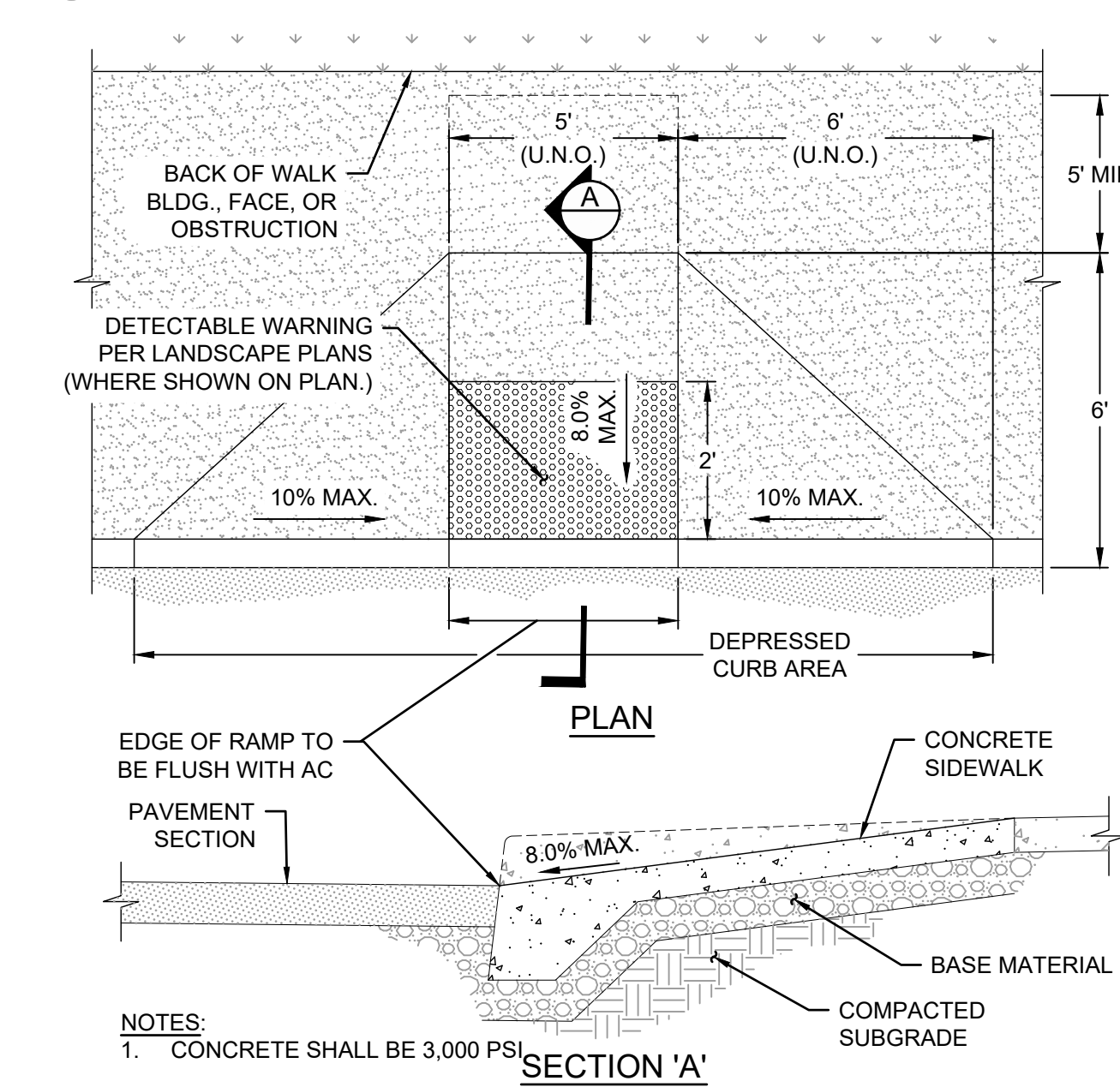




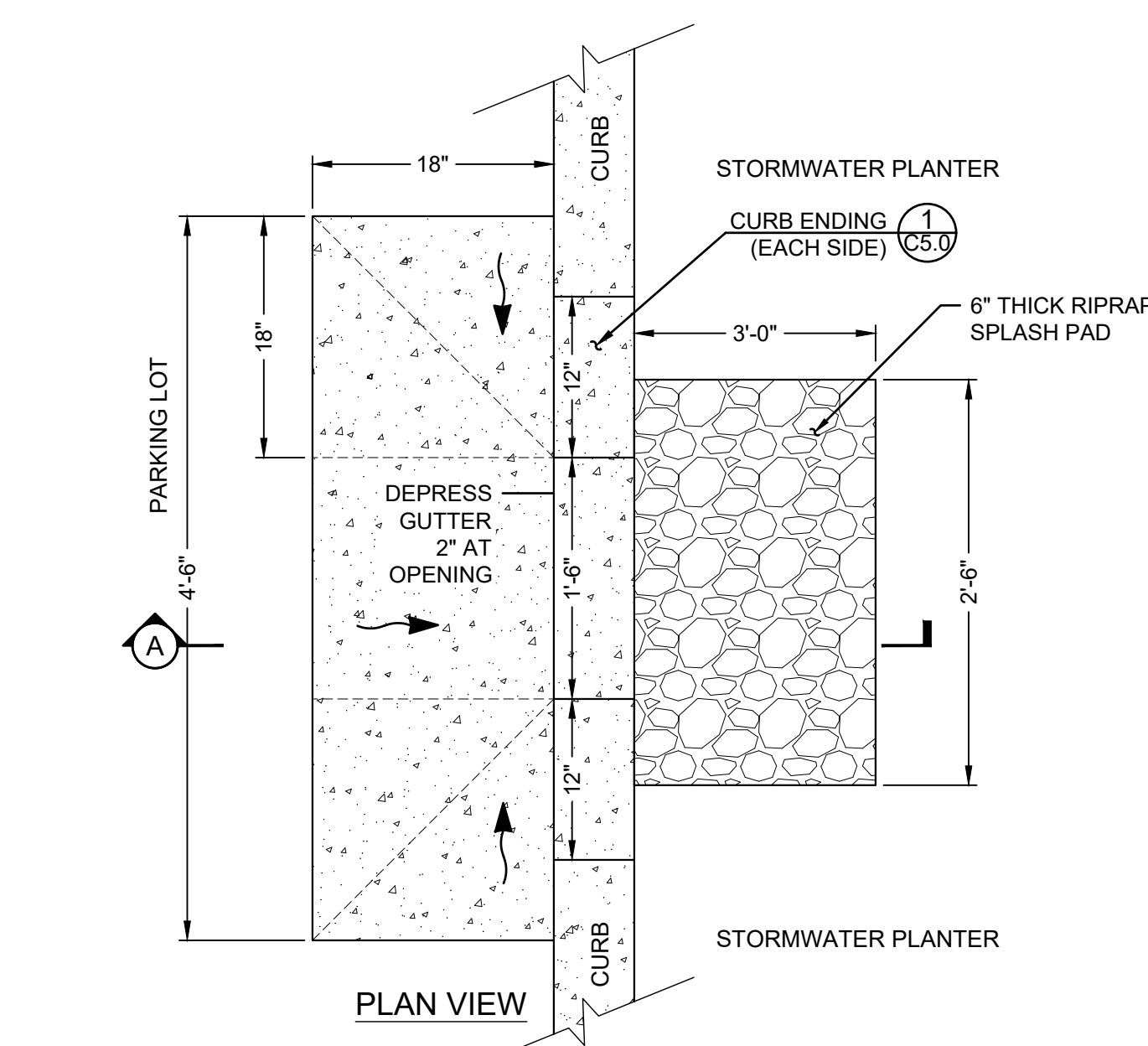
13 CURB RAMP - TYPE 2
 SCALE: NTS



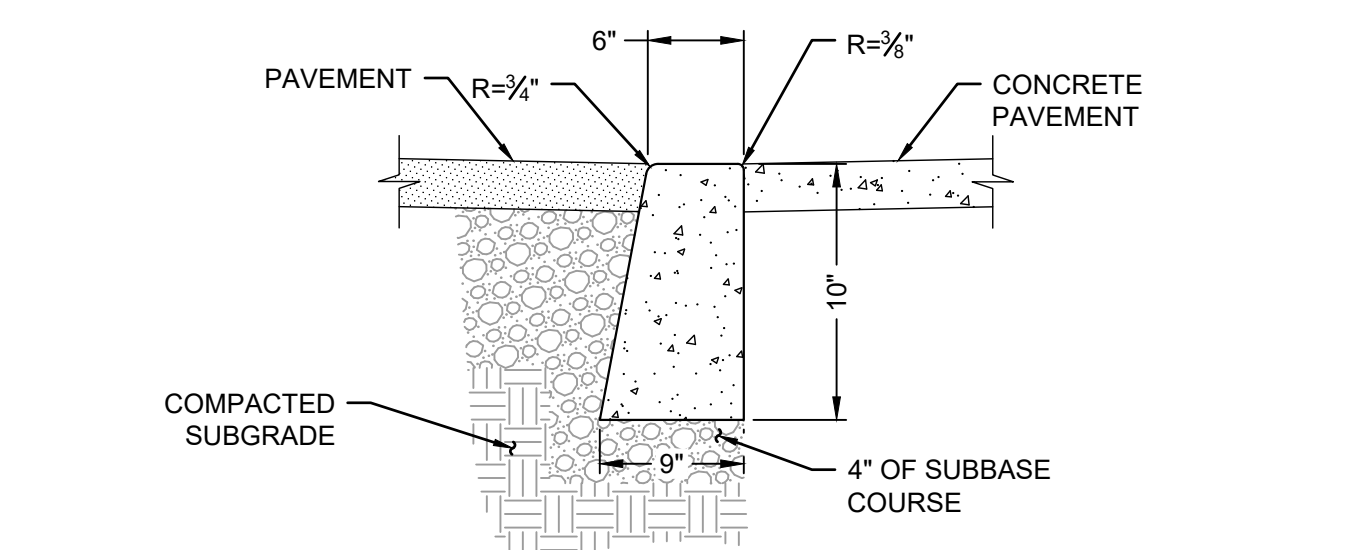
14 CURB RAMP - TYPE 3
 SCALE: NTS



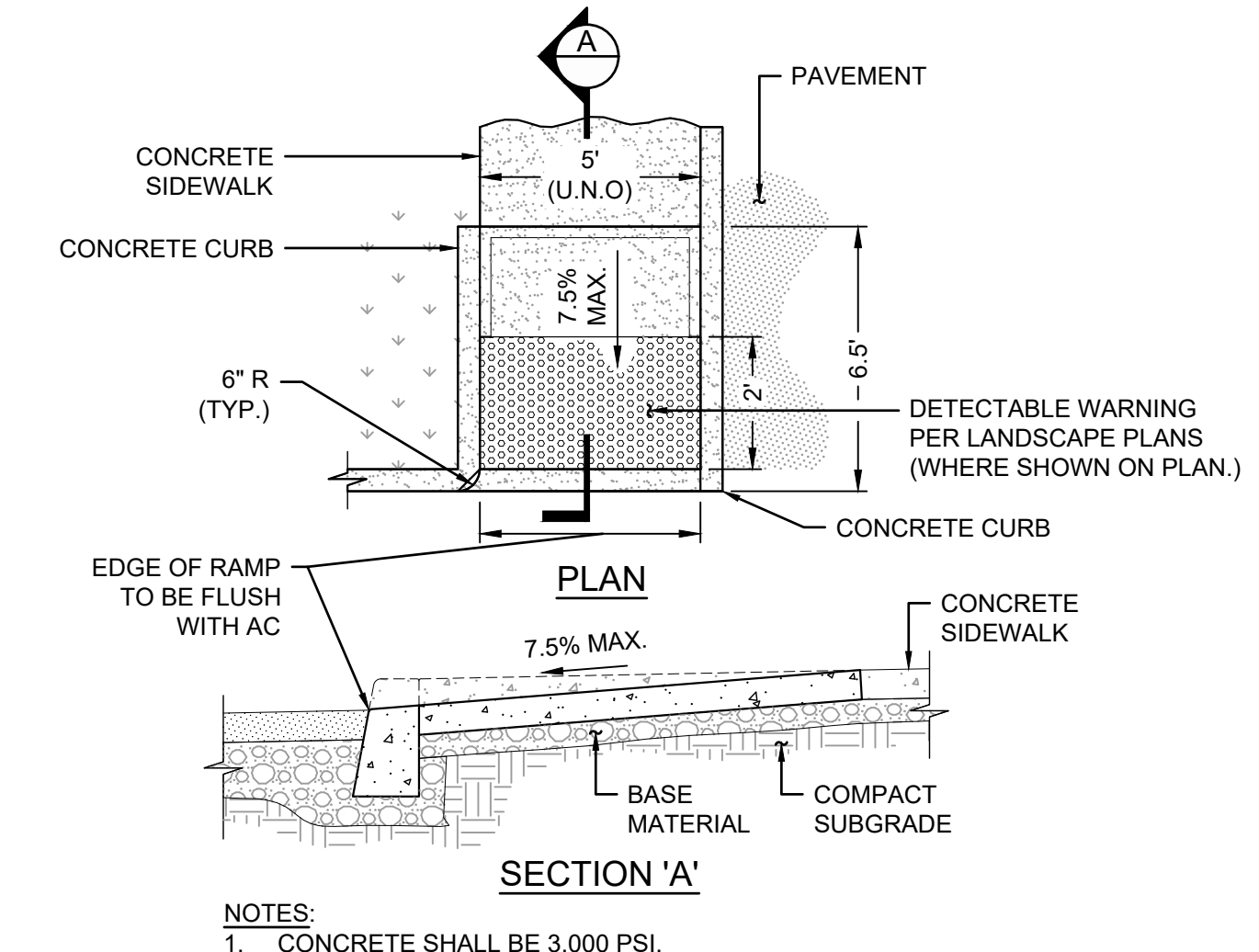
15 CURB RAMP - TYPE 4
 SCALE: NTS



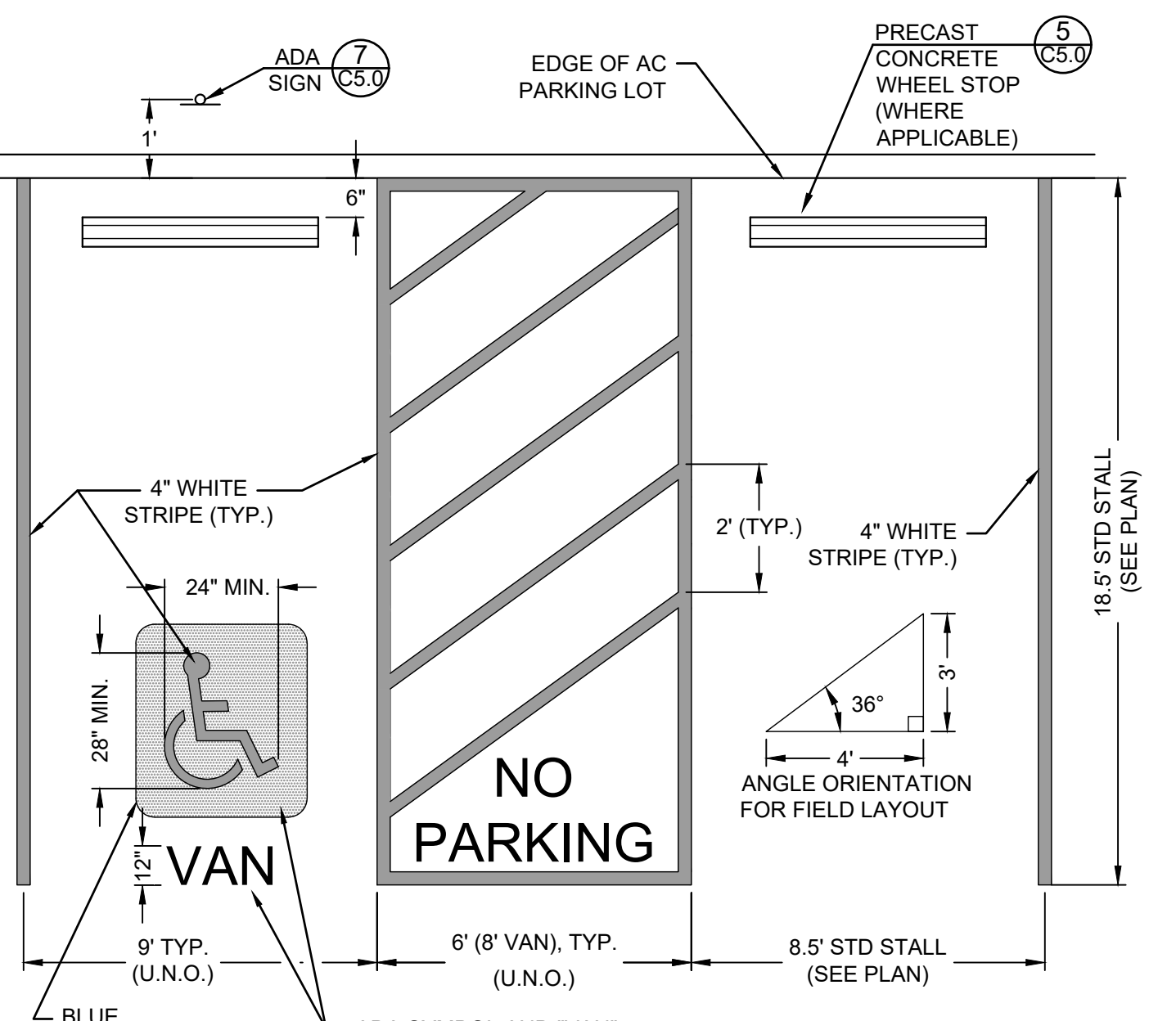
10 CURB SPILLWAY
 SCALE: NTS



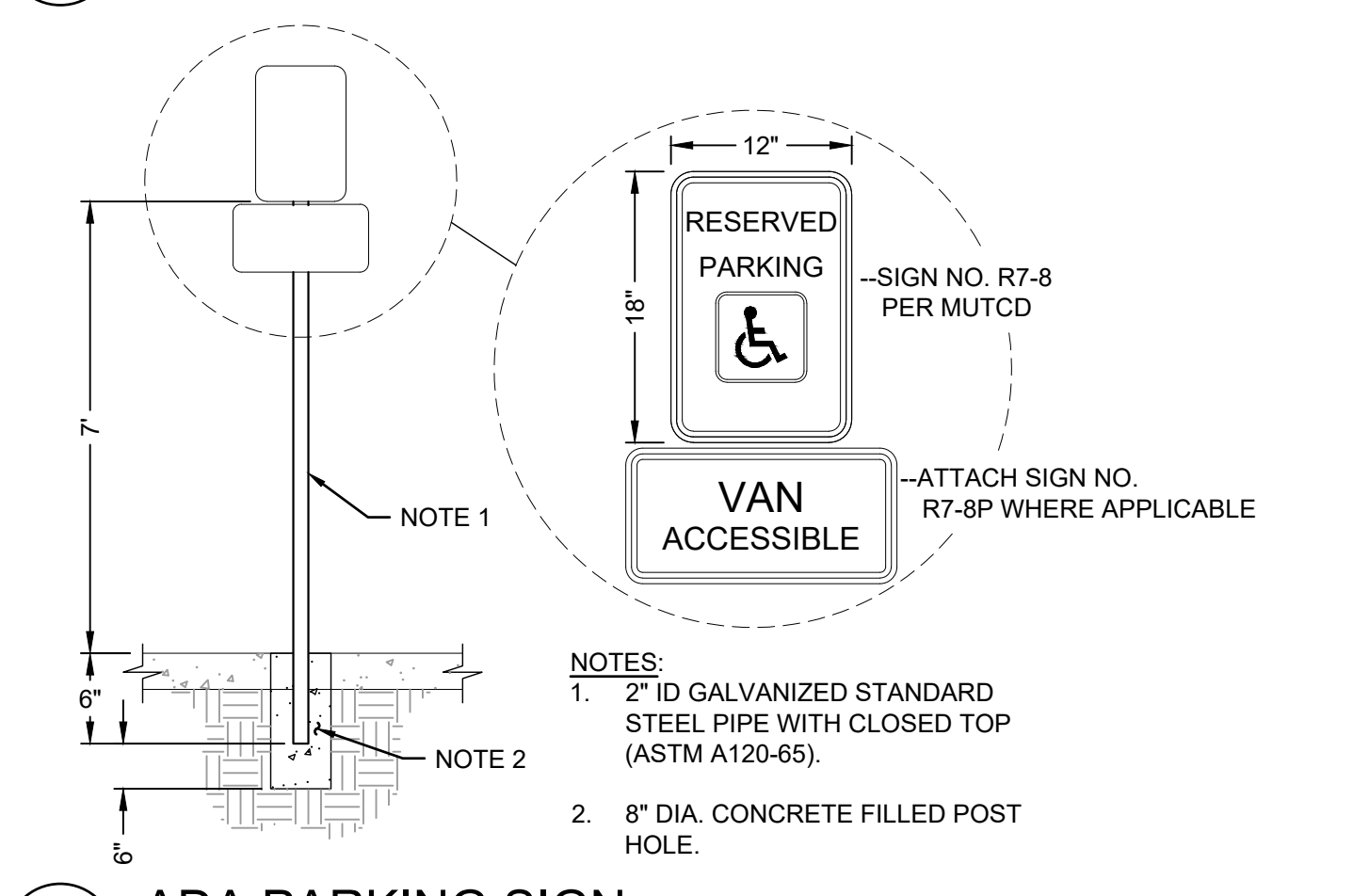
11 FLUSH CONCRETE CURB
 SCALE: NTS



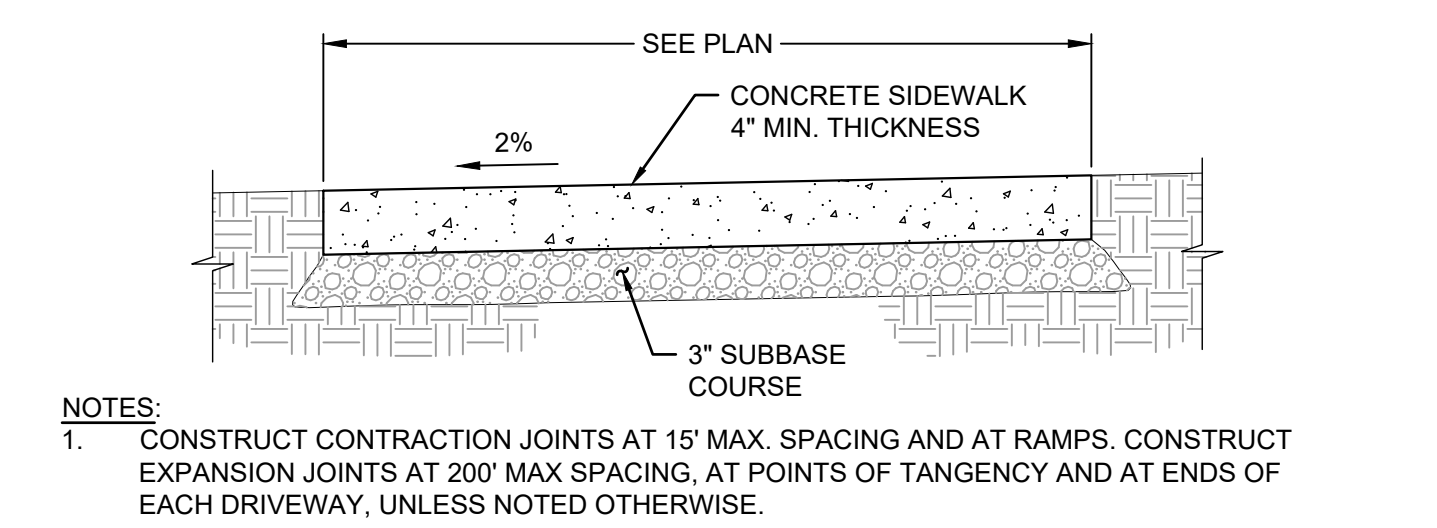
12 CURB RAMP - TYPE 1
 SCALE: NTS



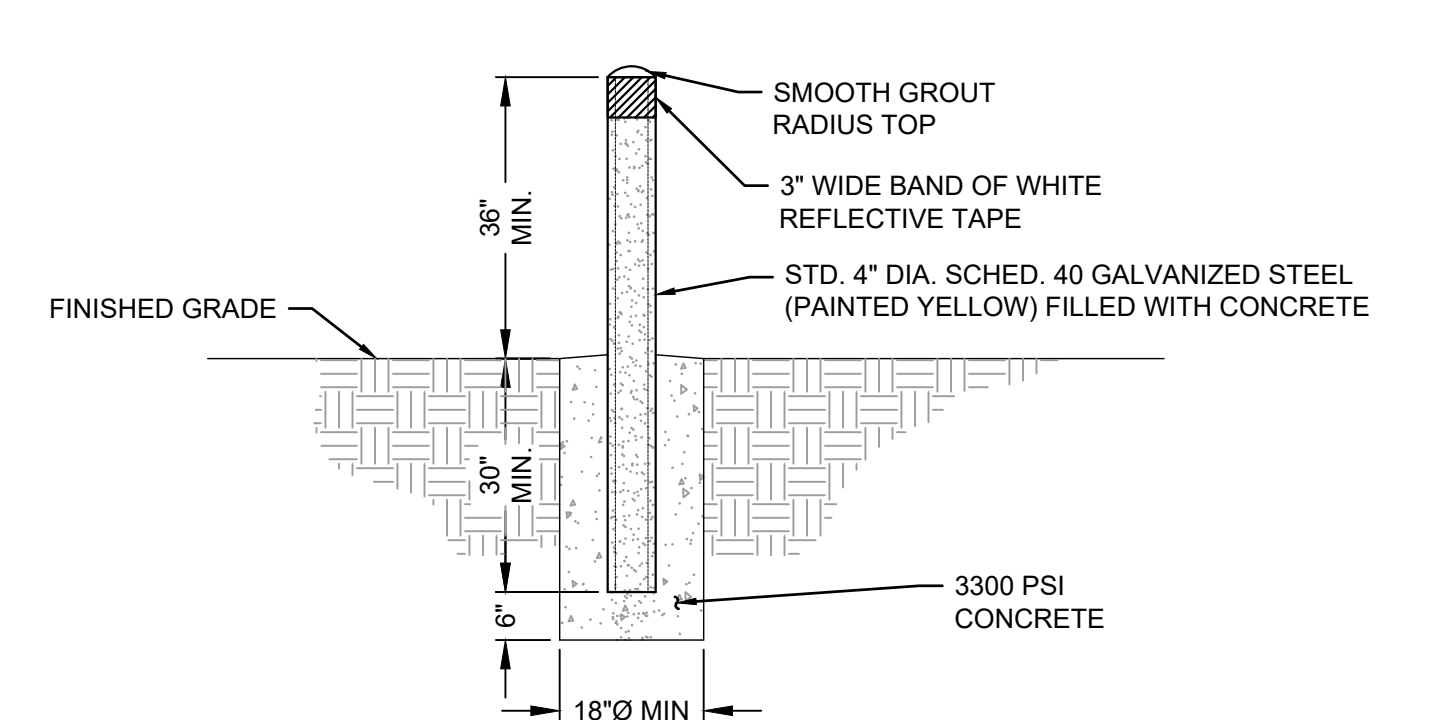
6 TYPICAL PARKING LAYOUT
 SCALE: NTS



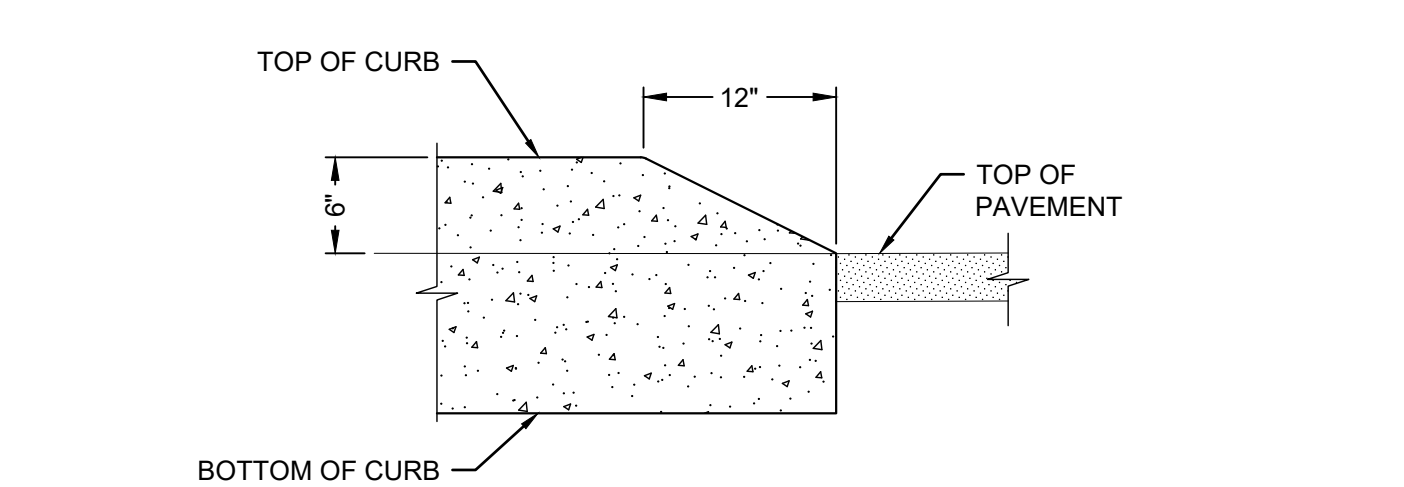
7 ADA PARKING SIGN
 SCALE: NTS



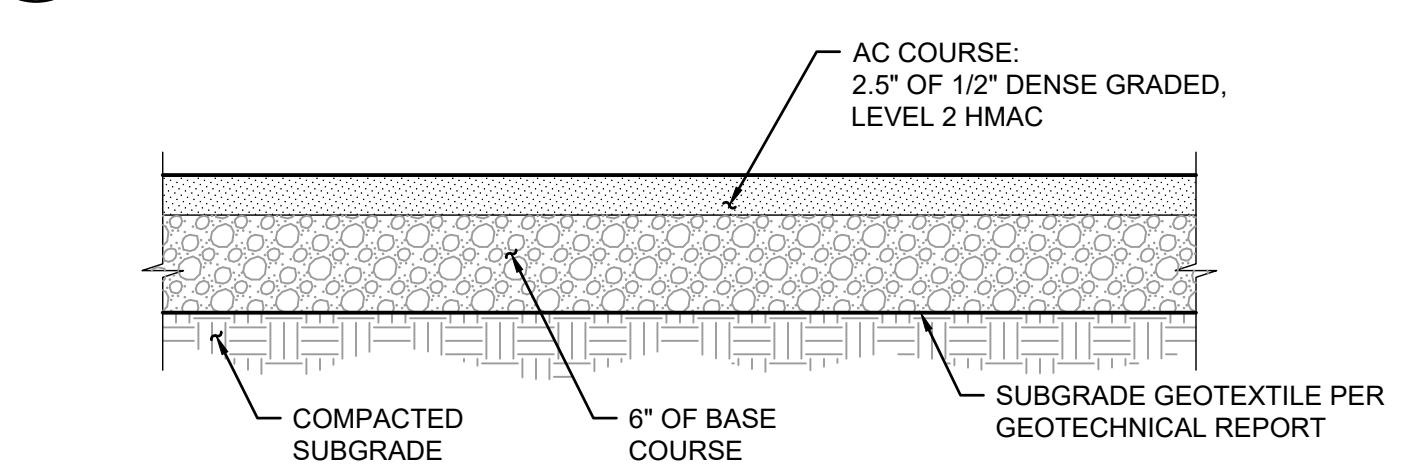
8 CONCRETE SIDEWALK
 SCALE: NTS



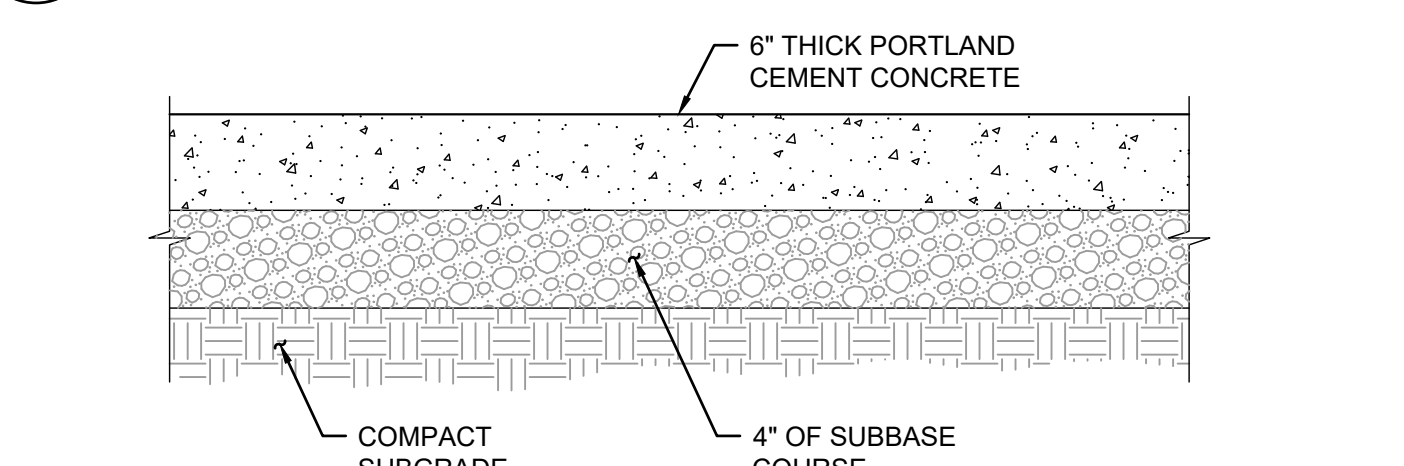
9 PIPE BOLLARD (4" DIA)
 SCALE: NTS



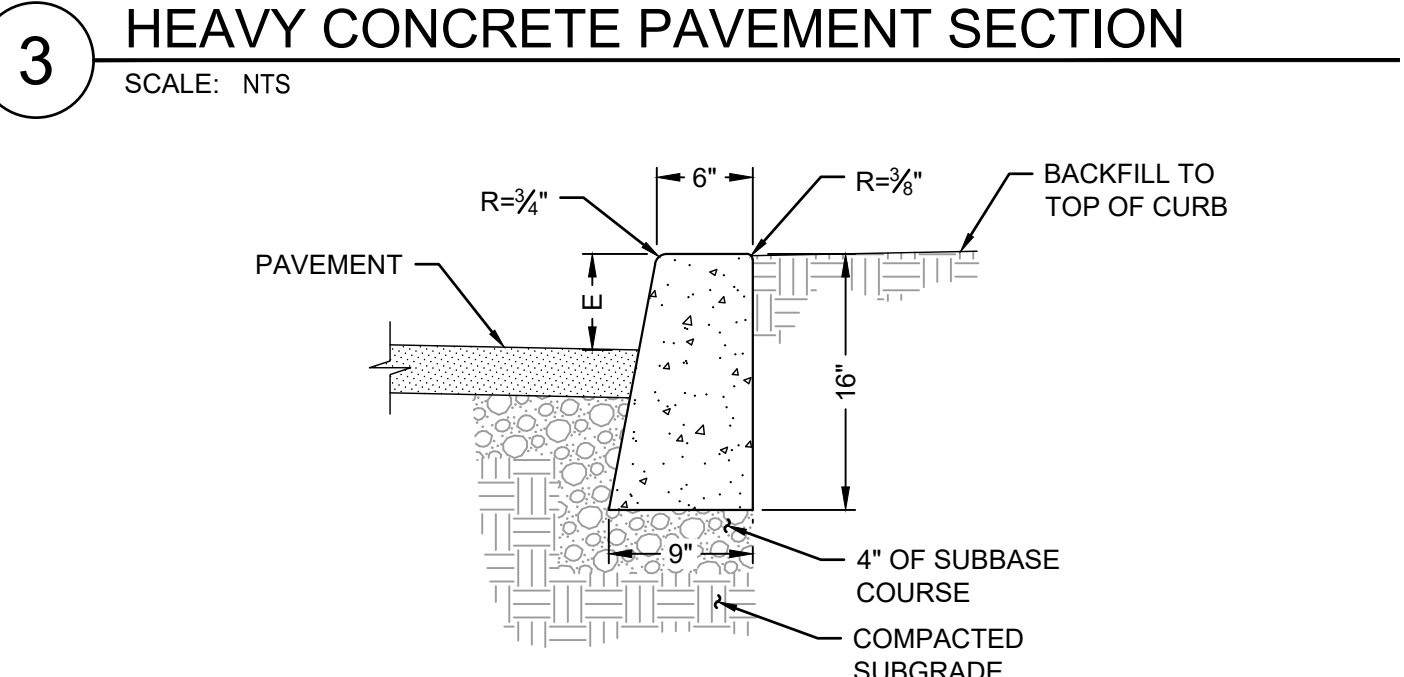
1 CONCRETE CURB ENDING
 SCALE: NTS



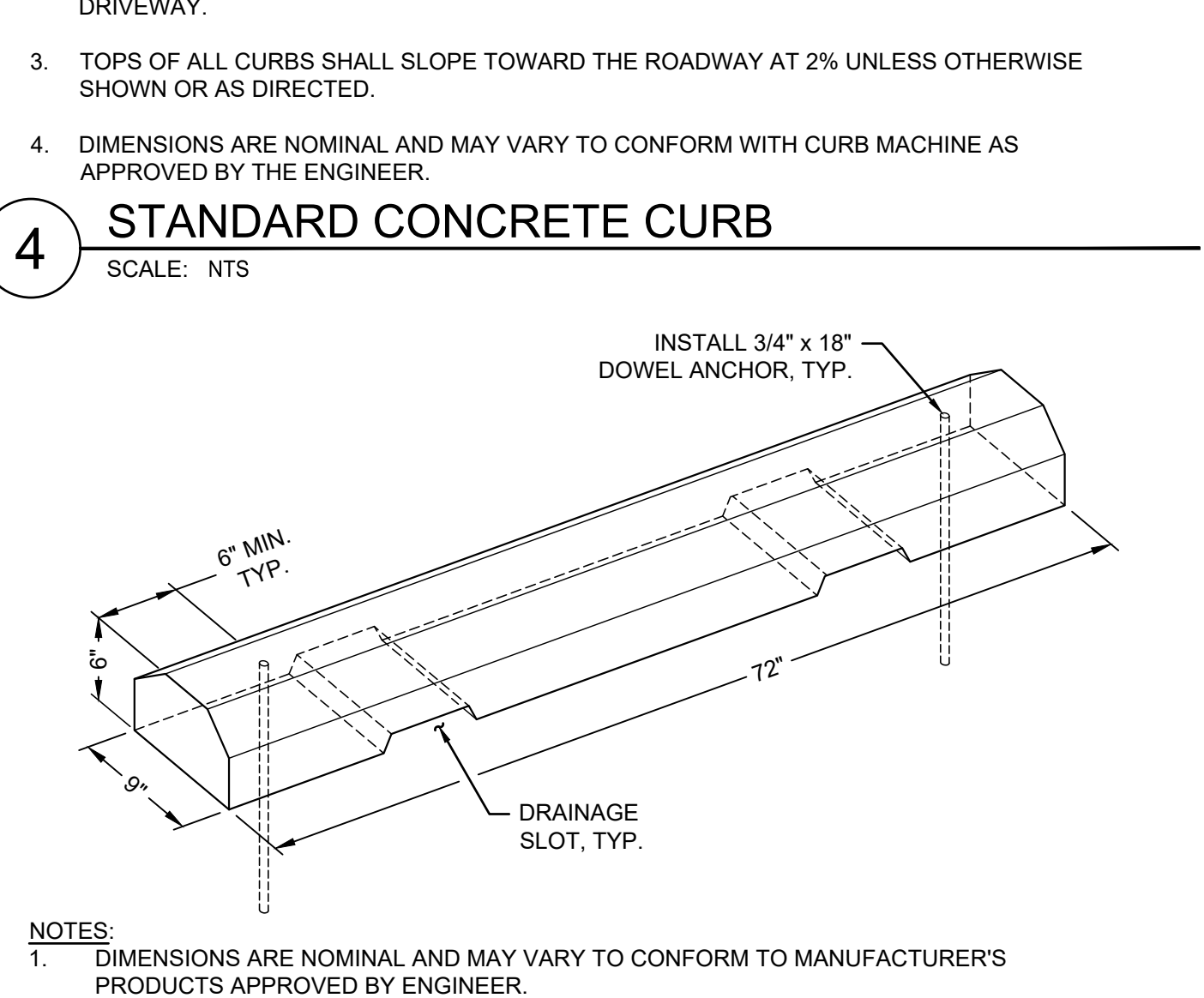
2 ASPHALT PAVEMENT SECTION
 SCALE: NTS



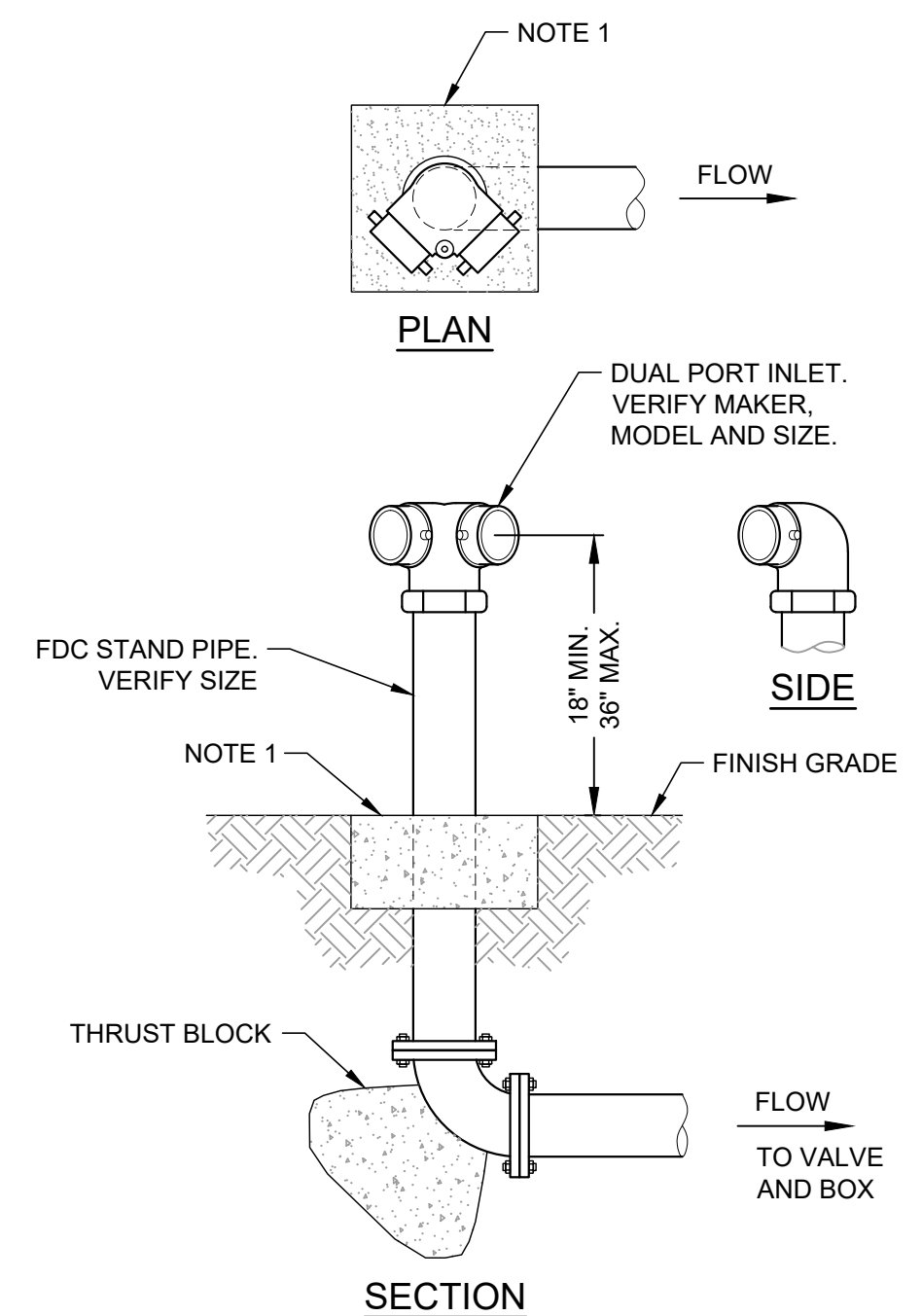
3 HEAVY CONCRETE PAVEMENT SECTION
 SCALE: NTS



4 STANDARD CONCRETE CURB
 SCALE: NTS

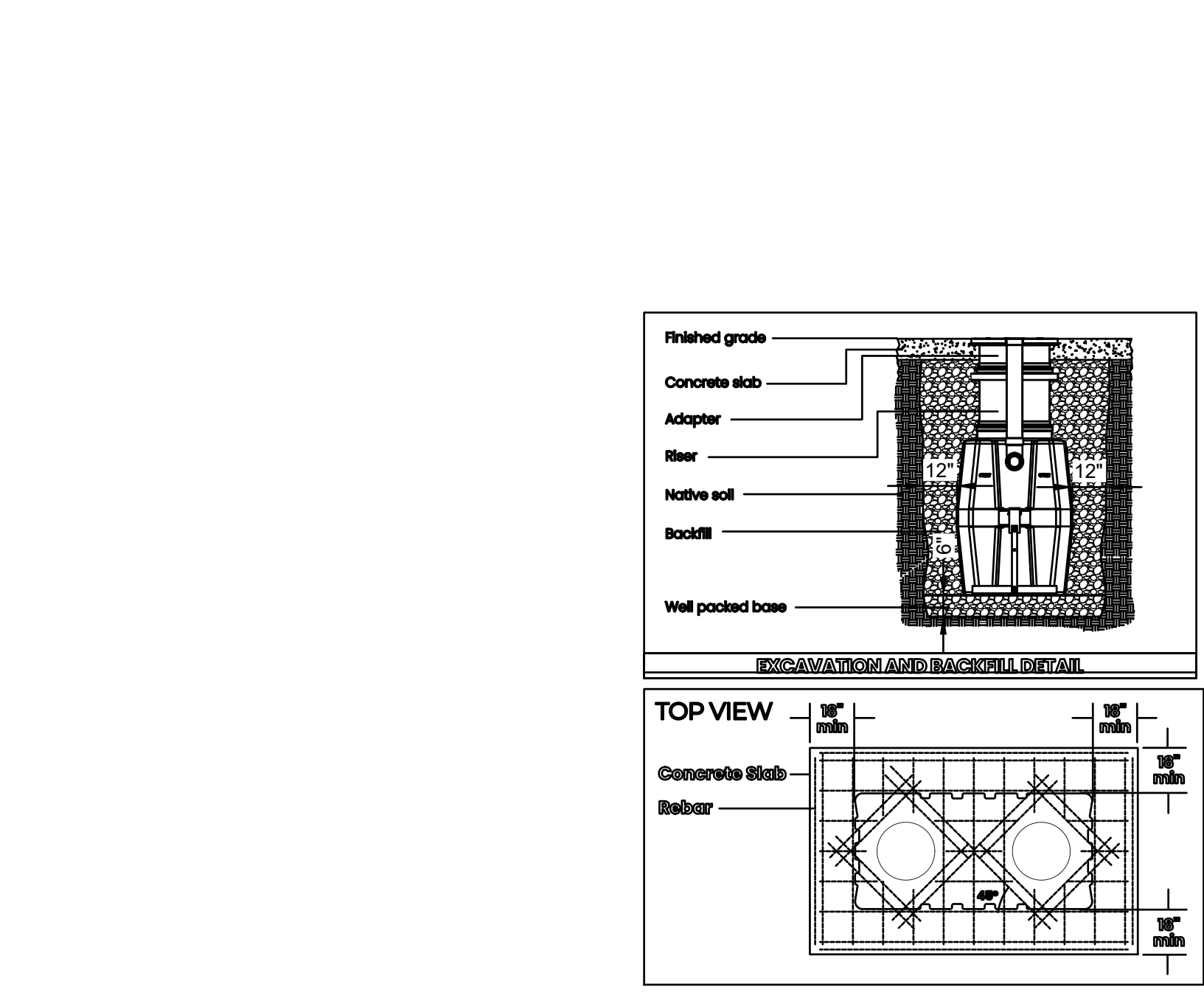


5 PRECAST CONCRETE WHEEL STOP
 SCALE: NTS



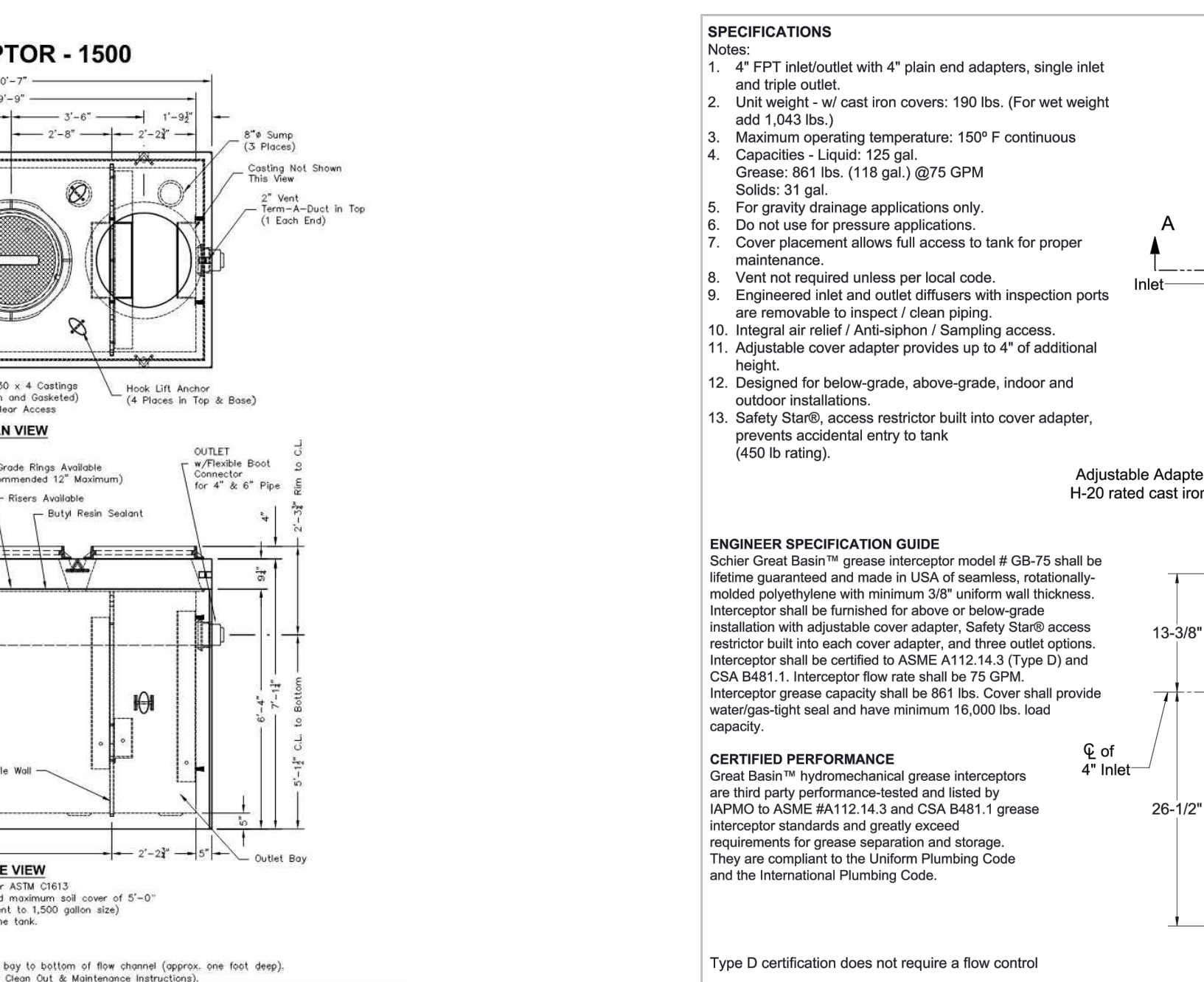
- NOTES:**
- MIN. 3000 PSI CONCRETE ANCHOR PAD TO BE 12"x12"x6" THICK, UNLESS NOTED OTHERWISE. ELIMINATE IF INSTALLED IN CONCRETE PAVED AREA.
 - USE FLANGE OR THREADED FITTINGS.
 - CONTRACTOR SHALL PROVIDE SINGLE CHECK VALVE AND BALL DRIP VALVE IN ACCESSIBLE LOCATION INSIDE DCDA VAULT. COORDINATE WITH PLUMBING.
 - REFER TO DETAIL 3/C5.1 FOR BOLLARD LOCATIONS AROUND FDC

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



- NOTES:**
- INSTALL (2) 2-WAY MAINTENANCE CLEANOUTS 24" UPSTREAM AND DOWNSTREAM OF UNIT.
 - INSTALL VENT TO HYDROMECHANICAL GREASE INTERCEPTOR AS REQUIRED BY THE OREGON SPECIALITY PLUMBING CODE.
 - USE NO. 4 REBAR GRADE 60 STEEL PER ASTM A615; CONNECTED WITH TIE WIRE. REBAR TO BE 2.5" FROM EDGE OF CONCRETE AND SPACED IN A 12" GRID WITH 4" SPACING AROUND ACCESS OPENINGS.

5 CURB WALL
SCALE: NTS

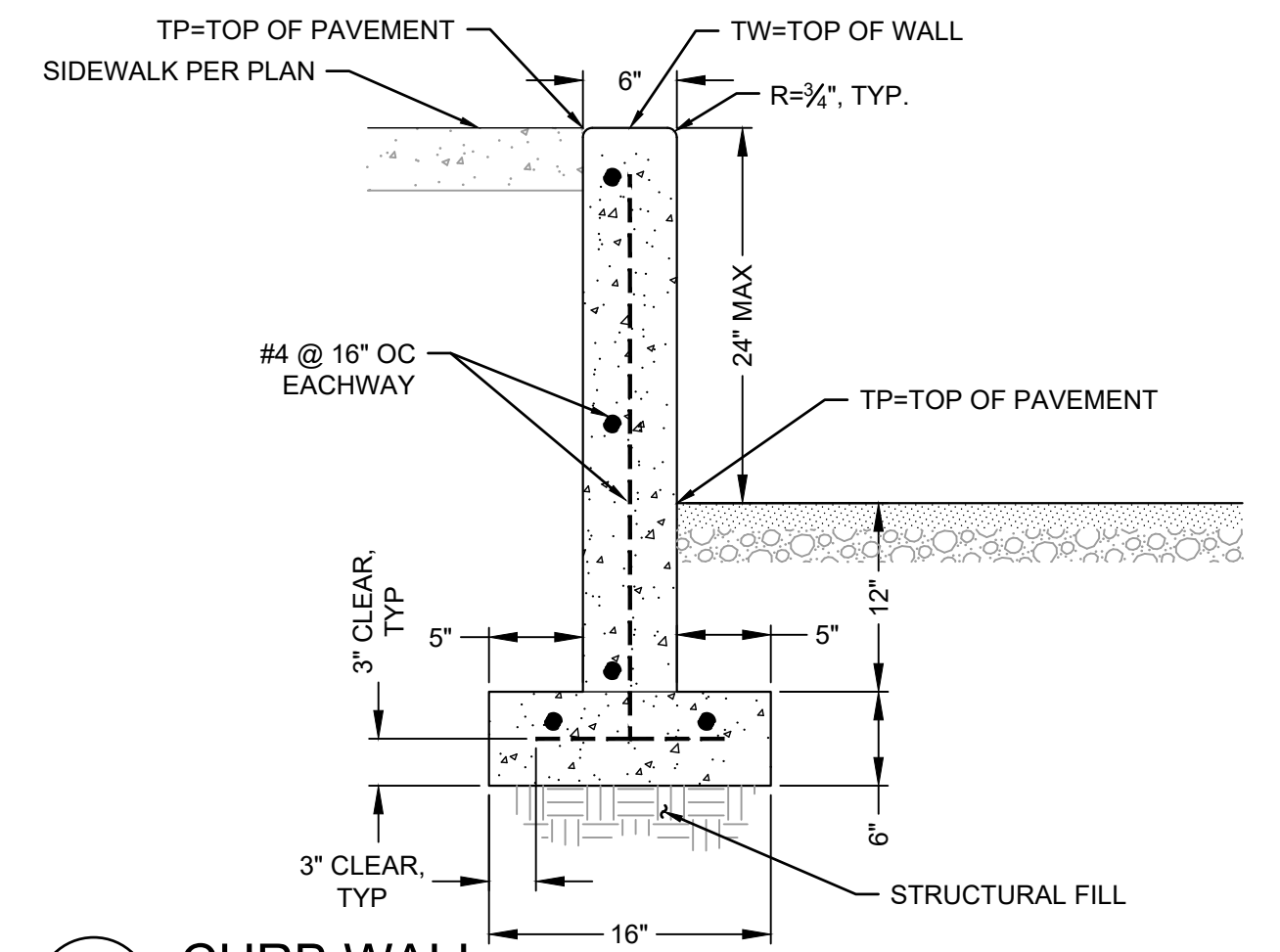


TYPE D certification does not require a flow control

SPECIFICATION SHEET	
MODEL NUMBER: GB-75	PART NUMBER: 4045-007-02
DESCRIPTION: GB-75 GREASE INTERCEPTOR 75 GPM, 4\"/>	
DWG BY: C. BUSENITZ	DATE: 4/14/2022
REV: -	ECO: -

- NOTES:**
- INSTALL PER SCHIER STANDARD INSTALLATION DETAIL 7/C5.1

6 GB-75 GREASE INTERCEPTOR
SCALE: NTS

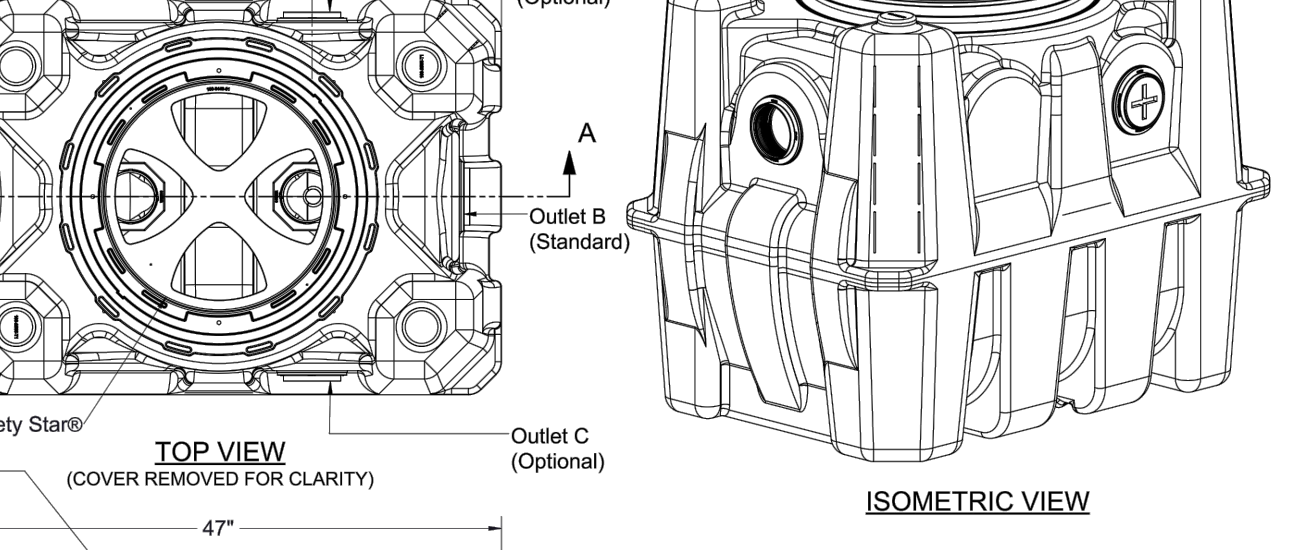


- NOTES:**
- PVC TO PVC COUPLER

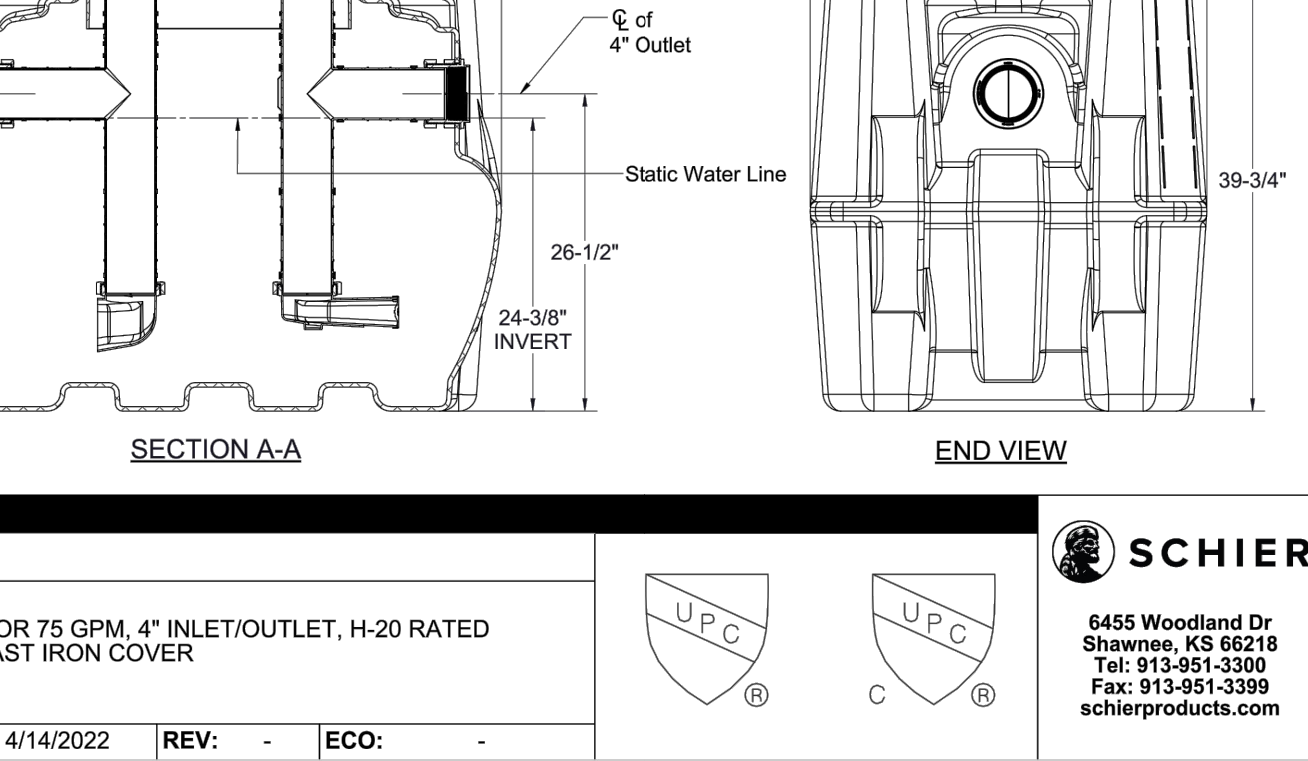


- NOTE:**
- INSTALLATION SHOWN IS ONLY A SUGGESTION. THE DISTANCE FROM BOTTOM OF DEVICE TO FINISH GRADE, FREEZE PROTECTION, AND CLEARANCE FOR TESTING & REPAIR ARE THE MAJOR CONSIDERATIONS FOR INSTALLATION. PLUGS TO BE INSTALLED IN TEST COCKS OF BELOW GROUND INSTALLATIONS (NO DISSIMILAR METALS). IF FREEZE PROTECTION IS PROVIDED, THE 24\"/>

1 STANDARD GRAVITY TEE CONNECTION
SCALE: NTS

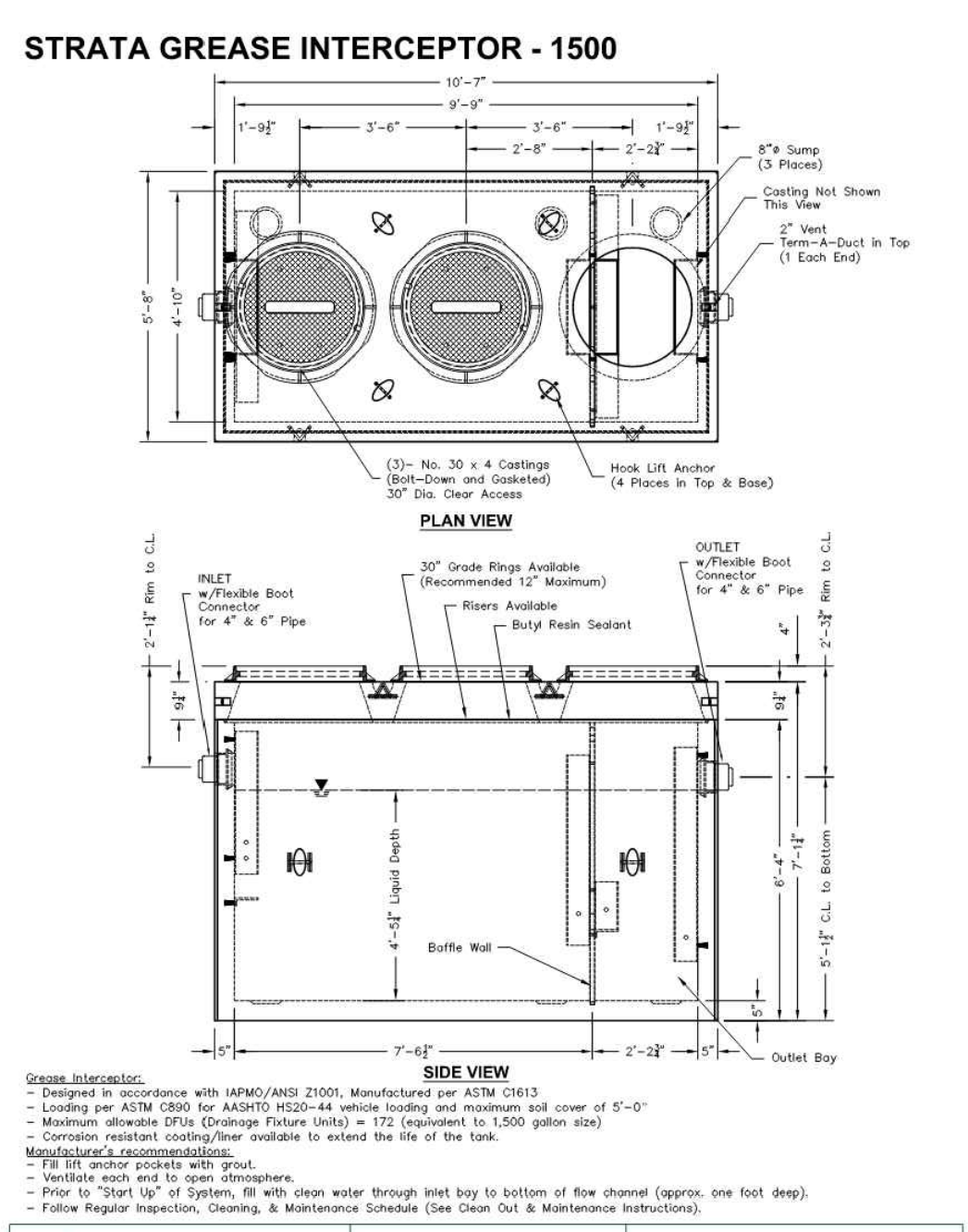


2 DOUBLE CHECK BACKFLOW ASSEMBLY
SCALE: NTS



3 BOLLARD - PLAN VIEW
SCALE: NTS

4 PLANTER CURB
SCALE: NTS



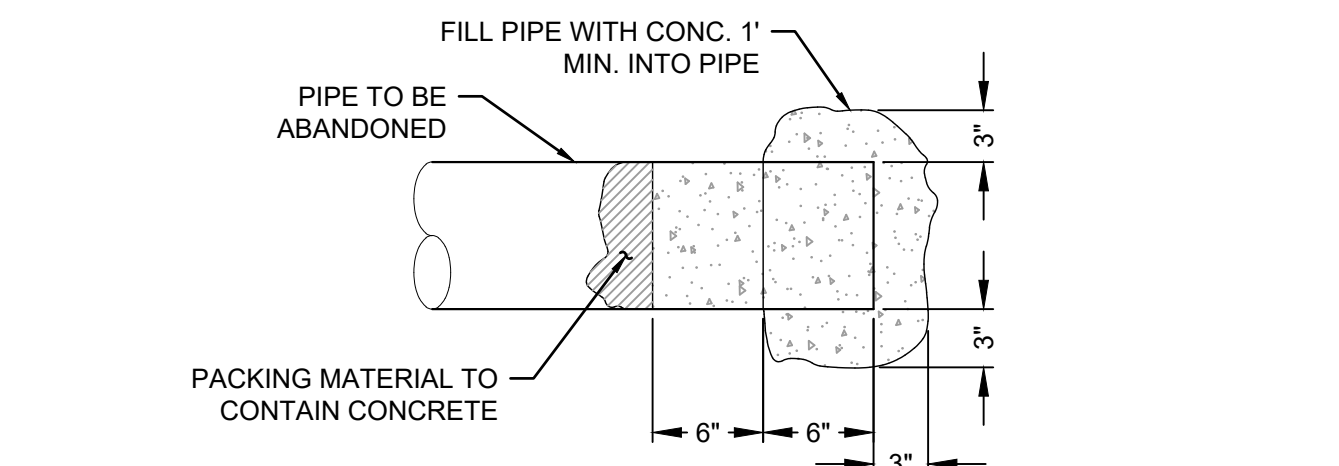
SPECIFICATION SHEET	
MODEL NUMBER: GB-75	PART NUMBER: 4045-007-02
DESCRIPTION: GB-75 GREASE INTERCEPTOR 75 GPM, 4\"/>	
DWG BY: C. BUSENITZ	DATE: 4/14/2022
REV: -	ECO: -

- NOTES:**
- INSTALL PER OLDCASTLE INSTALLATION REQUIREMENTS

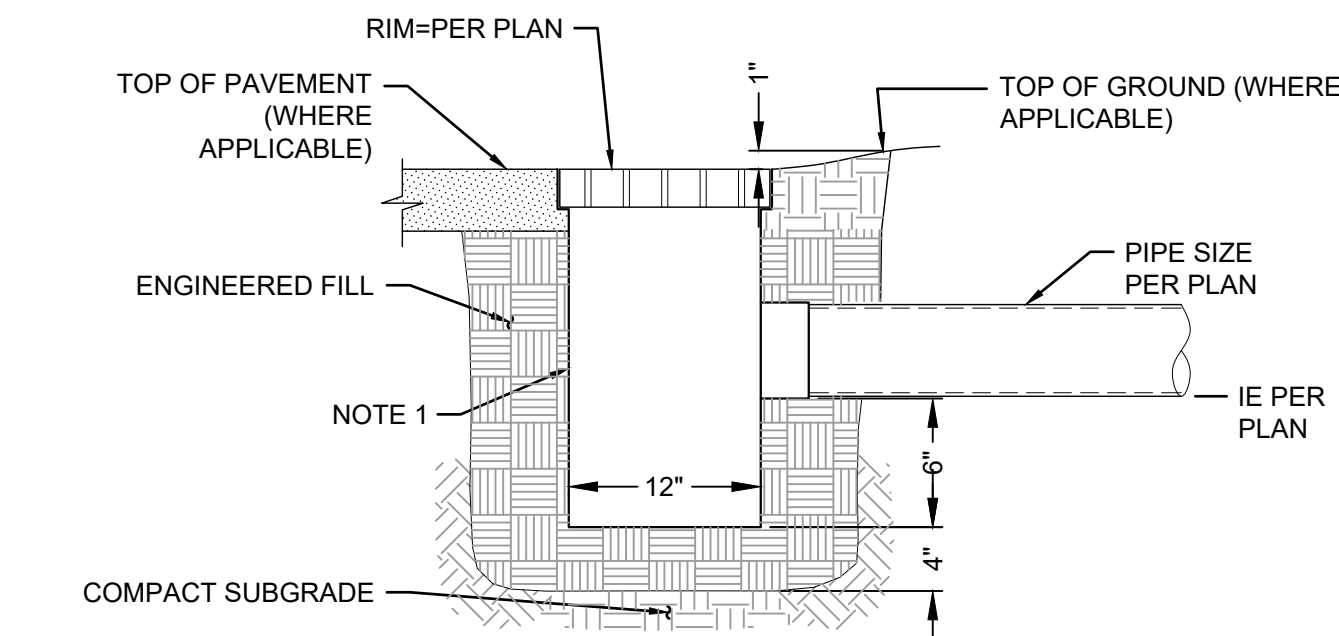
9 STRATA 1500 GREASE INTERCEPTOR
SCALE: NTS

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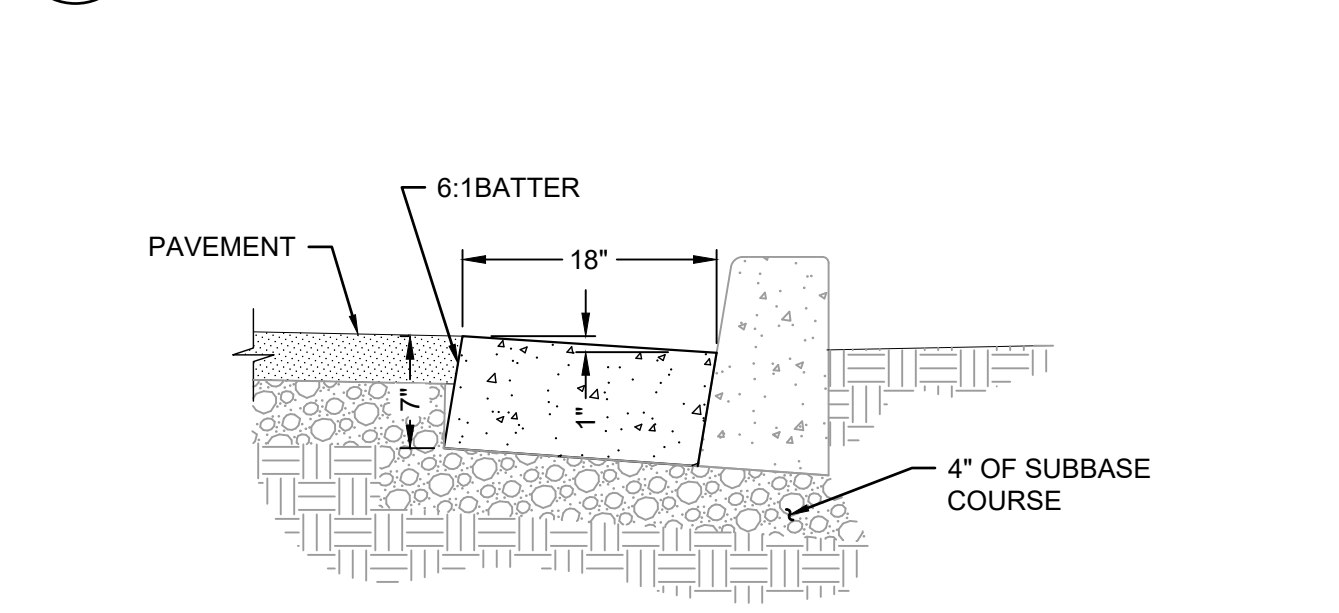


10 PLUG
 SCALE: NTS



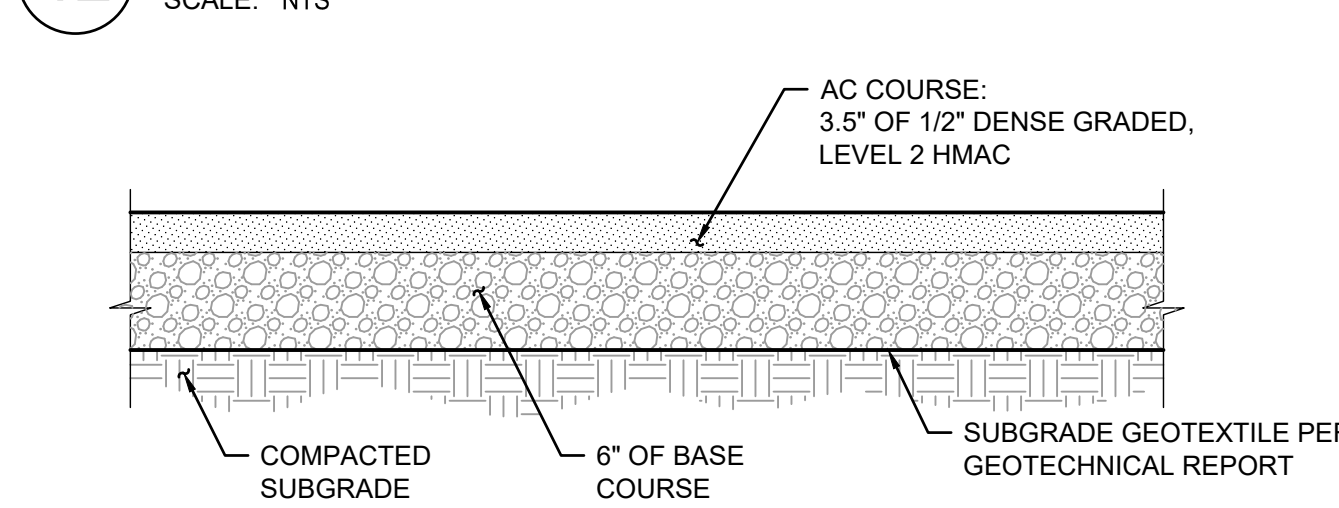
11 AREA DRAIN
 SCALE: NTS

NOTE:
 1. NYLOPLAST 12" DRAIN BASIN WITH 6" SUMP AND LIGHT DUTY GRATE AND FRAME OR APPROVED EQUAL.

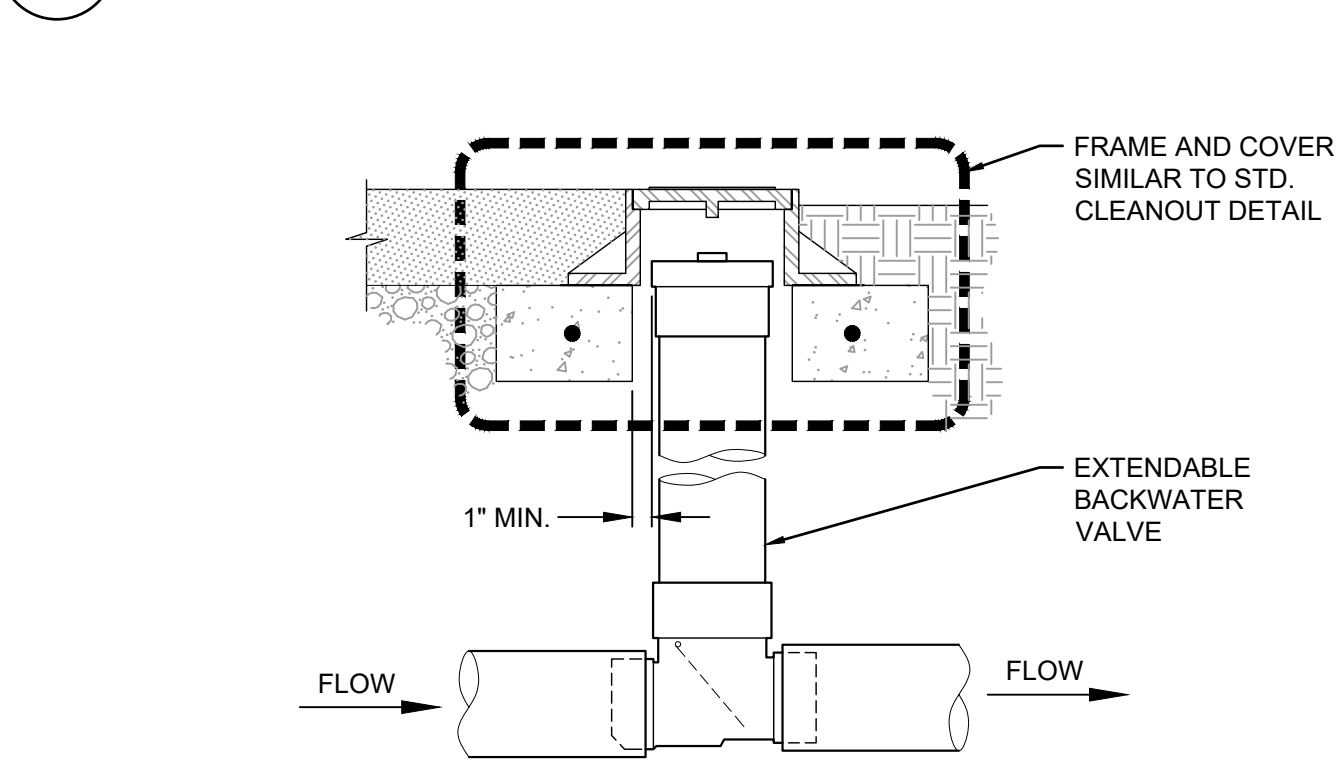


12 CONCRETE GUTTER
 SCALE: NTS

NOTES:
 1. CONSTRUCT GUTTER ADJACENT TO PROPOSED CURB. CONSTRUCT MONOLITHICALLY OR SEPARATE.

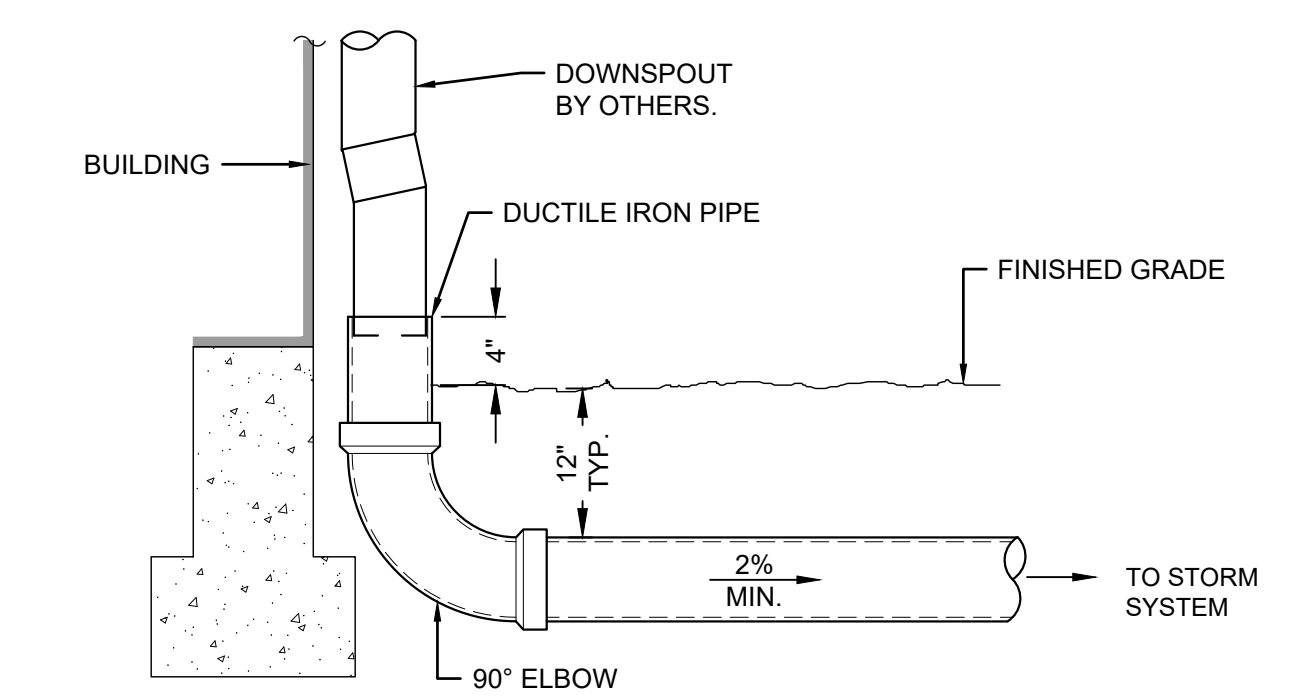


13 HEAVY ASPHALT PAVEMENT SECTION
 SCALE: NTS

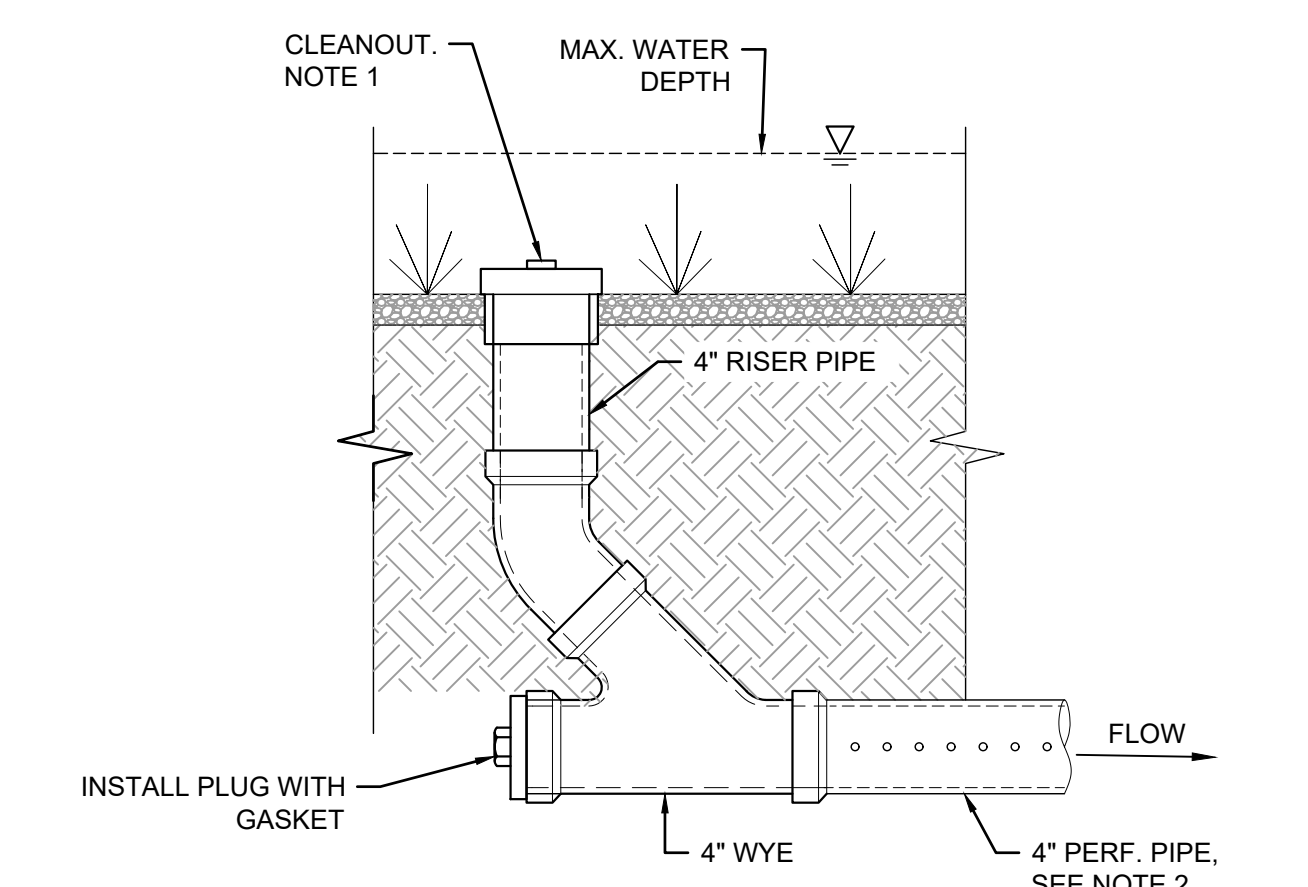


14 EXTENDABLE BACKWATER VALVE
 SCALE: NTS

NOTES:
 1. EXTENDABLE BACKWATER VALVE TO BE MANUFACTURED BY CLEAN CHECK OR APPROVED EQUAL AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

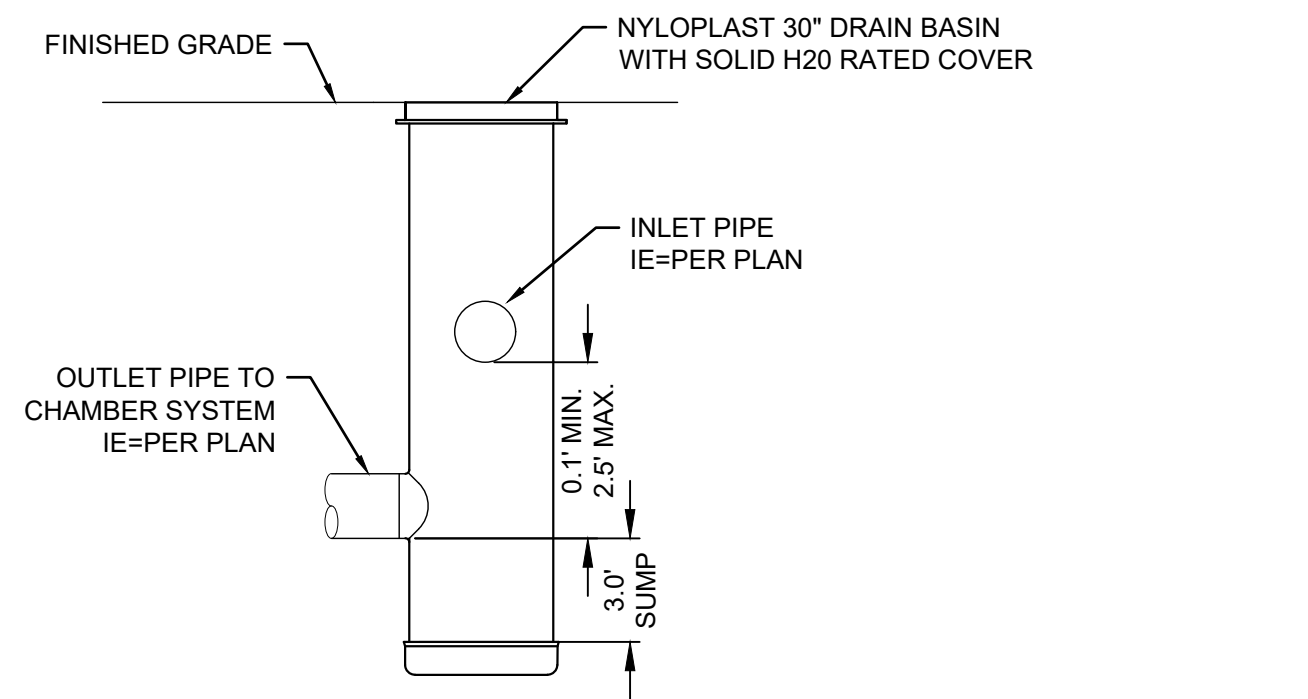


7 DOWNSPOUT/STORM DRAIN CONNECTION
 SCALE: NTS



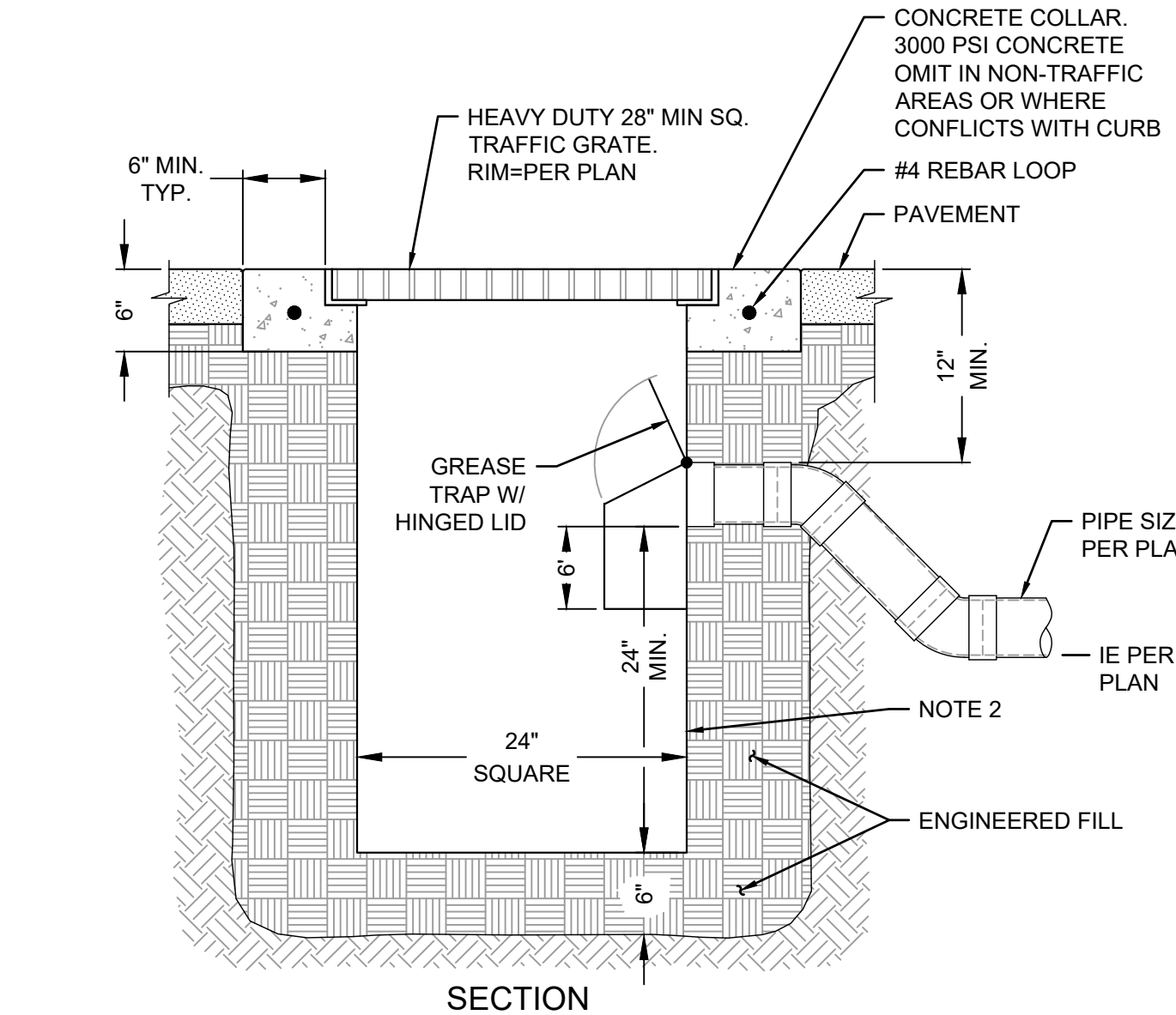
8 PLANTER CLEANOUT AND PERF PIPE
 SCALE: NTS

NOTES:
 1. NYLOPLAST CLEANOUT END CAP OR APPROVED EQUAL. ADJUST TO FINISHED GRADE
 2. PERFORATED PIPE TO MEET ODOT SPECIFICATION 02415.50. LOCATE AT BOTTOM OF STORAGE SECTION WITH HOLES ON TOP HALF OF PIPE.



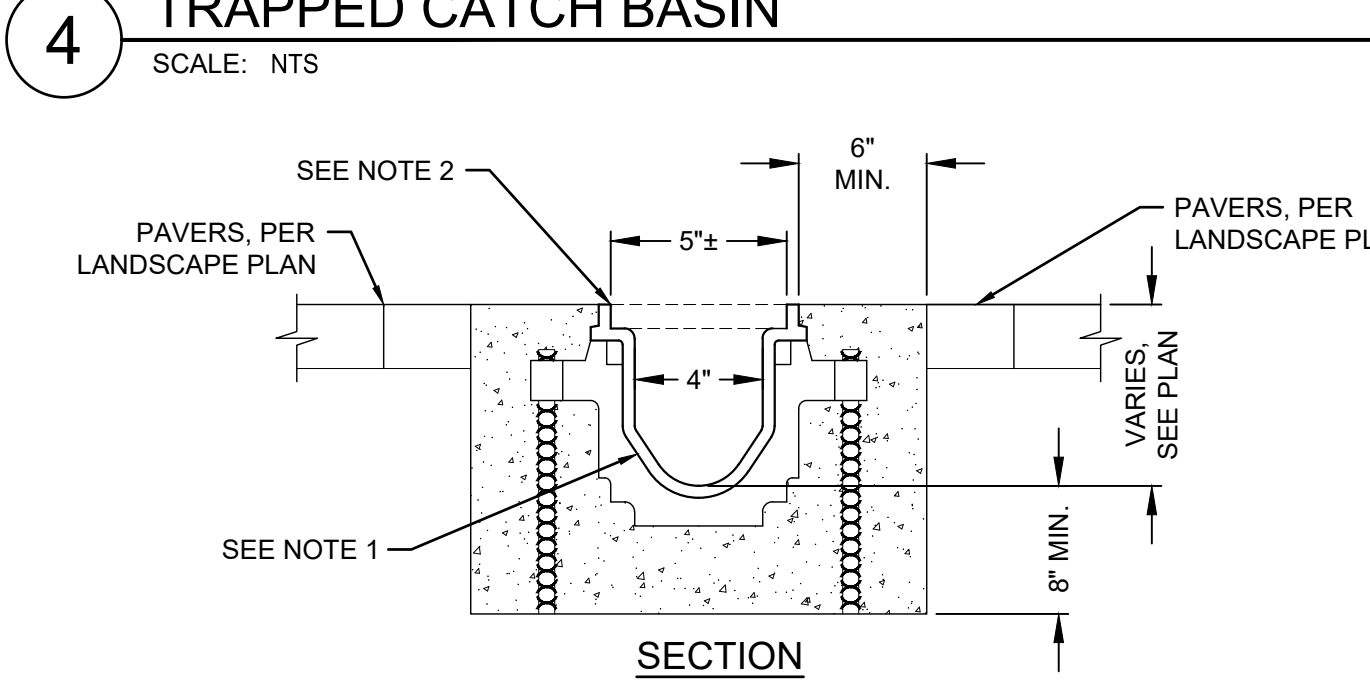
9 ACCESS BASIN
 SCALE: NTS

NOTE:
 1. BASIN STRUCTURE SHALL BE NYLOPLAST OR APPROVED EQUAL



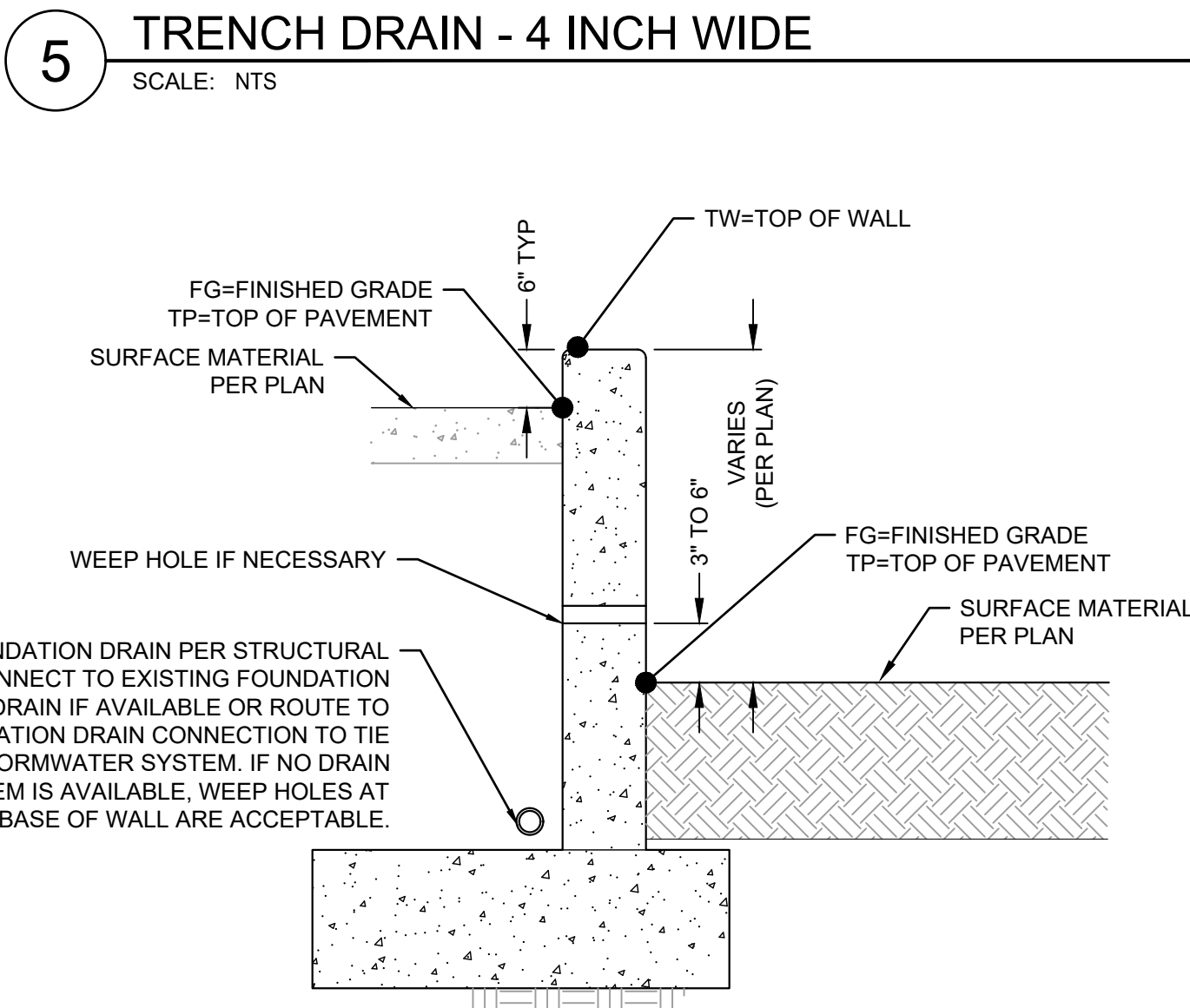
4 TRAPPED CATCH BASIN
 SCALE: NTS

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



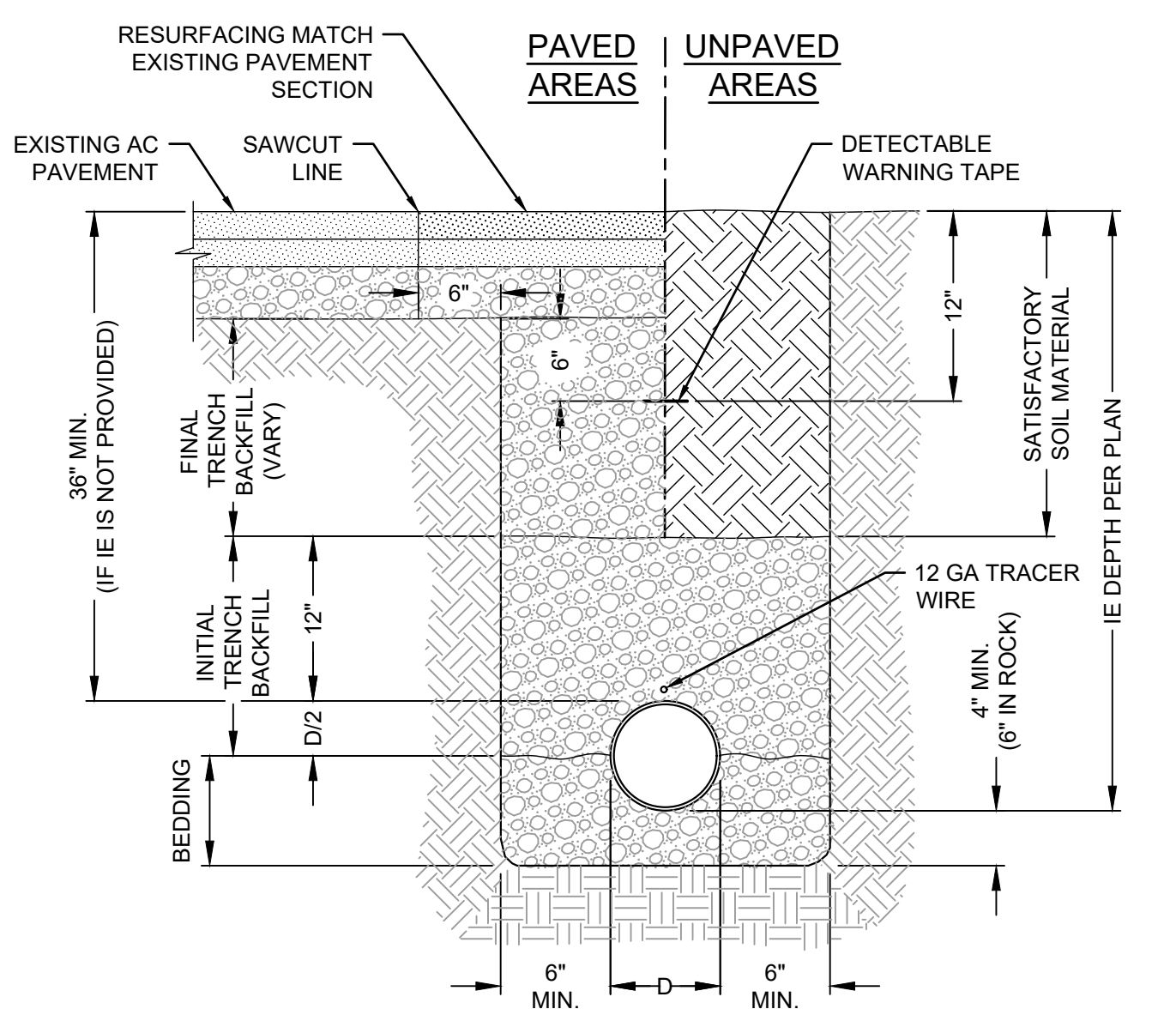
5 TRENCH DRAIN - 4 INCH WIDE
 SCALE: NTS

NOTES:
 1. TRENCH DRAIN SHALL BE NEUTRAL-SLOPED 4" WIDE ZURN OR ACO TRENCH DRAIN OR APPROVED EQUAL.
 2. TRENCH DRAIN GRATE SHALL BE LOCKABLE HEAVY DUTY TRENCH GRATE - CLASS C.
 3. TRENCH SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

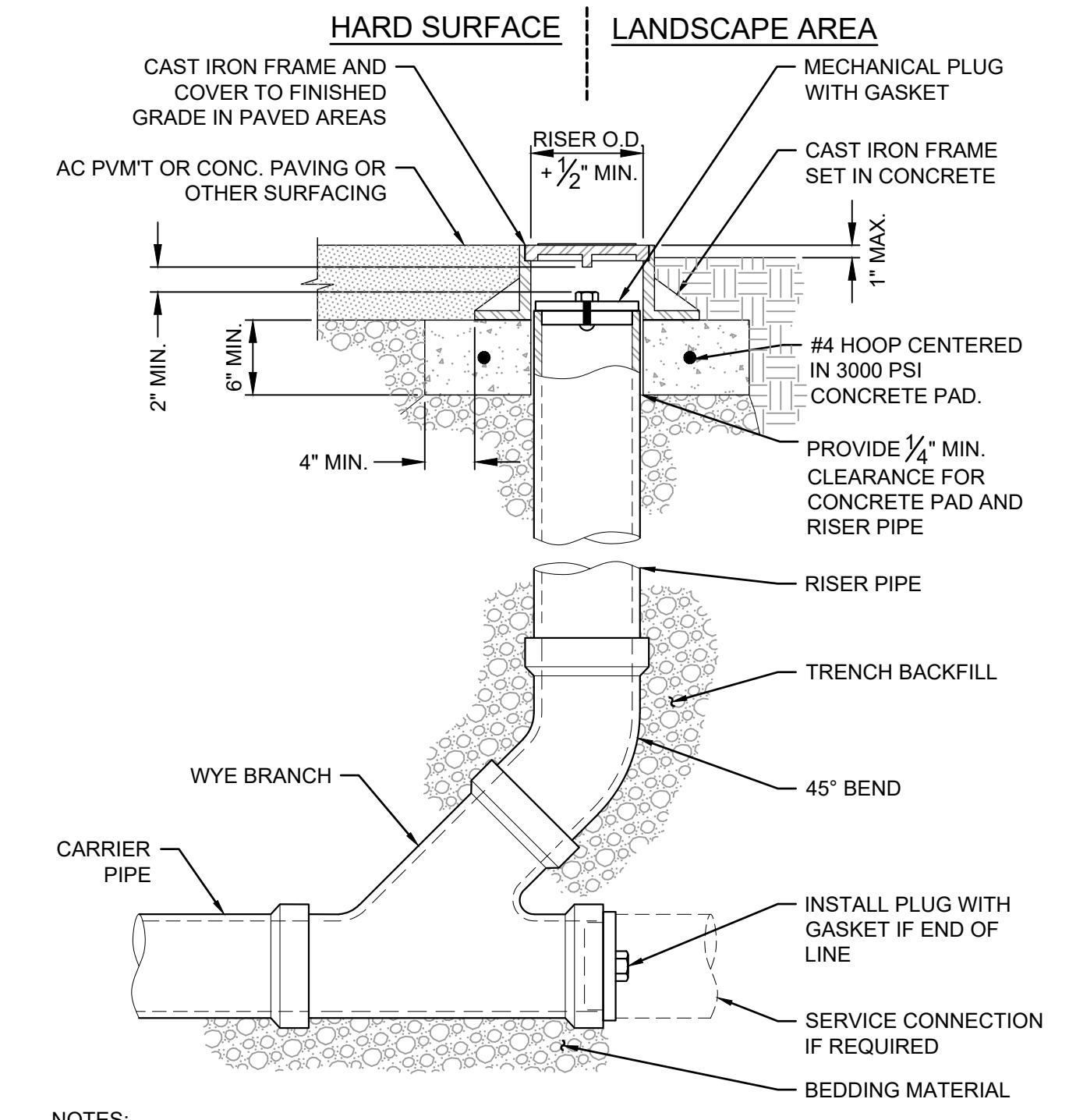


6 CONCRETE RETAINING WALL
 SCALE: NTS

NOTES:
 1. STRUCTURAL DESIGN OF WALL, FOUNDATION, FABRIC AND BACKFILL MATERIAL PER STRUCTURAL PLANS

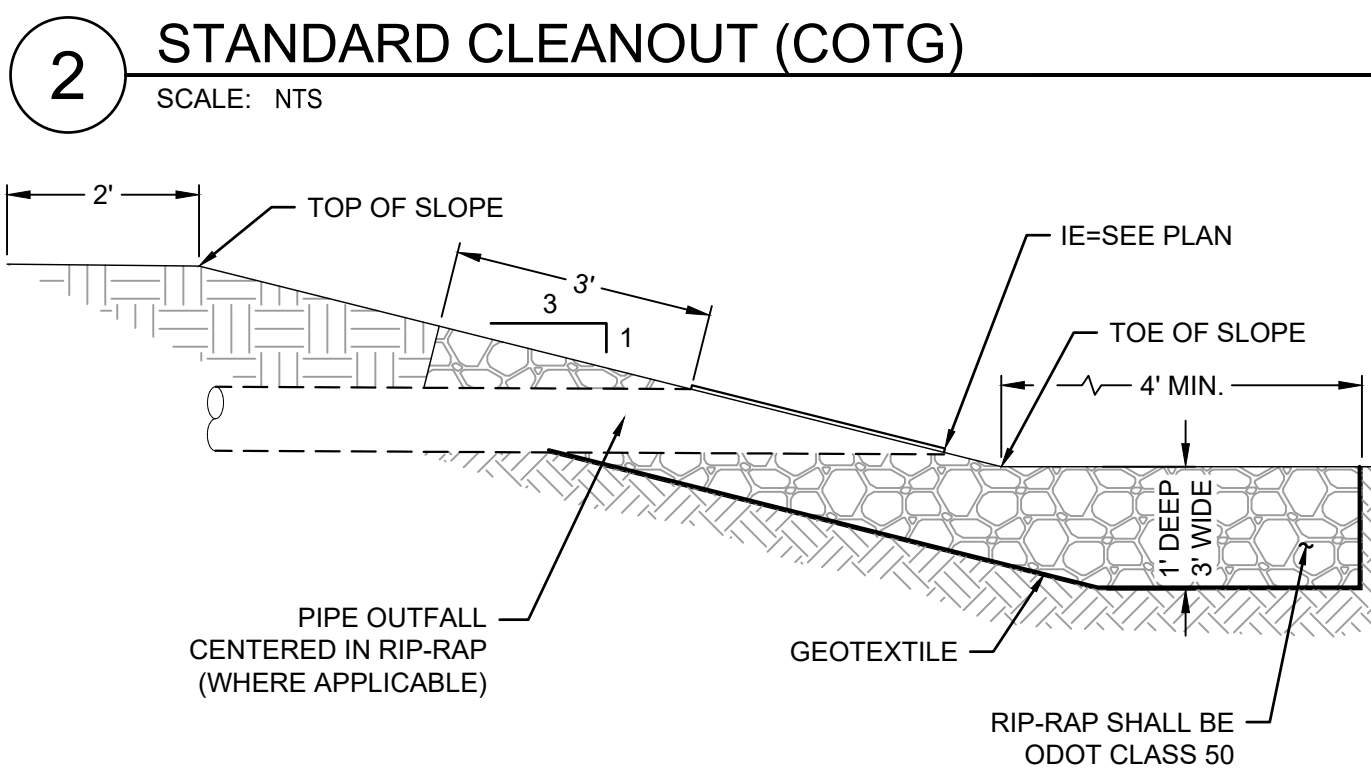


1 TYPICAL PIPE BEDDING AND BACKFILL
 SCALE: NTS



2 STANDARD CLEANOUT (COTG)
 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.



3 TYPICAL OUTFALL RIP-RAP PROTECTION
 SCALE: NTS

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SC-740 ISOLATOR ROW PLUS DETAIL
NTS

SC-740 10" (250 mm) INSPECTION PORT DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

A. INSPECTION PORTS (IF PRESENT)

A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN

A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED

A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG

A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)

A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR PLUS ROWS

B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS

B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE

B.3. MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY

B.4. FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE

B.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS

A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 40" (1.1 m) OR MORE IS PREFERRED

B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN

C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.

2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

StormTech Chamber System

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PROPOSED LAYOUT

112	STORMTECH SC-740 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT UNPAVED):	315.15
16	STORMTECH SC-740 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	309.15
6	STONE ABOVE (IN)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	308.65
6	STONE BELOW (IN)	MINIMUM ALLOWABLE GRADE (TOP OF ROAD CONCRETE PAVEMENT):	308.65
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	308.65

PROPOSED ELEVATIONS

9018	INSTALLED SYSTEM VOLUME (CF)	TOP OF STONE	307.15
	(PERMETER STONE INCLUDED)	TOP OF SC-740 CHAMBER	307.15
	(COVER STONE INCLUDED)	12" TOP MANHOLE BENCH	305.15
	(BASE STONE INCLUDED)	12" BOTTOM CONNECTION INVERT	304.15
3226	SYSTEM AREA (SF)	SC ISOLATOR ROW PLUS INVERT:	304.15
394.8	SYSTEM PERIMETER (ft)	UNDERDRAIN	304.15
		UNDERDRAIN INVERT:	304.15
		BOTTOM OF SC-740 CHAMBER	304.15
		BOTTOM OF STONE	304.15

PART TYPE

ITEM ON LAYOUT	DESCRIPTION	INVERT	MAX FLOW
A	24" BOTTOM PREFABRICATED EZ END CAP PART# SC740ECEZ / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	0.10'	
B	INSTALL FLAMP ON 24" ACCESS PIPE / PART# SC74024RAMP		
C	12" x 12" TOP MANIFOLD, ADS-N-12	12.50'	
D	CONCRETE STRUCTURE		2.0 CFS OUT
E	30" DIAMETER (24.00" SLUMP MIN)		
F	NYLOPLAST INLET W/ ISO		
G	40" ABS RIGID DRAIN WITH INTEGRATED HOPE UNDERDRAIN		5.7 CFS IN

NOTES

1. MANFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6-32 FOR MANIFOLD SIZING GUIDANCE.

2. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.

3. THIS CHAMBER SYSTEM MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.

4. THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.

NOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

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UNDERDRAIN DETAIL
NTS

SC-740 TECHNICAL SPECIFICATION
NTS

NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4" (1.30 m)
CHAMBER STORAGE	45.8 CUBIC FEET (1.30 m ³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET (2.12 m ³)
WEIGHT	75.0 lbs. (33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORDED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE07 / SC740EPE07PC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	—
SC740EPE08 / SC740EPE08PC	—	—	—	0.5" (13 mm)
SC740EPE07 / SC740EPE07PC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	—
SC740EPE08 / SC740EPE08PC	—	—	—	0.6" (15 mm)
SC740EPE10 / SC740EPE10PC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	—
SC740EPE10 / SC740EPE10PC	—	—	—	0.7" (18 mm)
SC740EPE10 / SC740EPE10PC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	—
SC740EPE11 / SC740EPE11PC	—	—	—	1.2" (30 mm)
SC740EPE12 / SC740EPE12PC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	—
SC740EPE12 / SC740EPE12PC	—	—	—	1.3" (33 mm)
SC740EPE15 / SC740EPE15PC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	—
SC740EPE15 / SC740EPE15PC	—	—	—	1.6" (41 mm)
SC740EPE18 / SC740EPE18PC	24" (600 mm)	18.5" (470 mm)	—	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2994.

* FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL.

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ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 90% PROCTOR DENSITY FOR WELL-GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 20,000 lbs (90 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (90 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".

2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.

3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

4. ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2187 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.

4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

5. REQUIREMENTS FOR HANDLING AND INSTALLATION:

- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
- TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LB/FT². THE ASS IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. (AND B) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 70° F / 21° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

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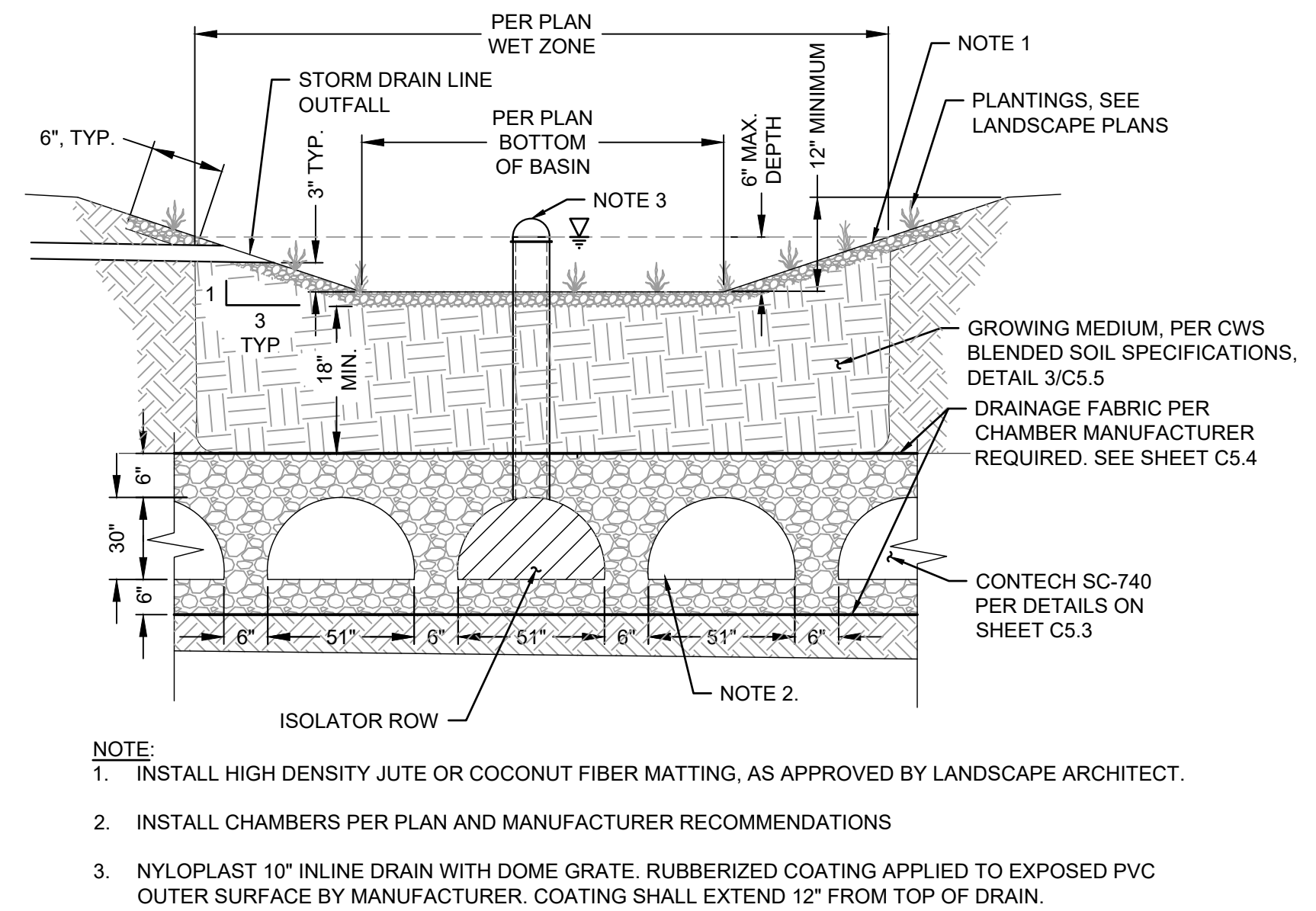
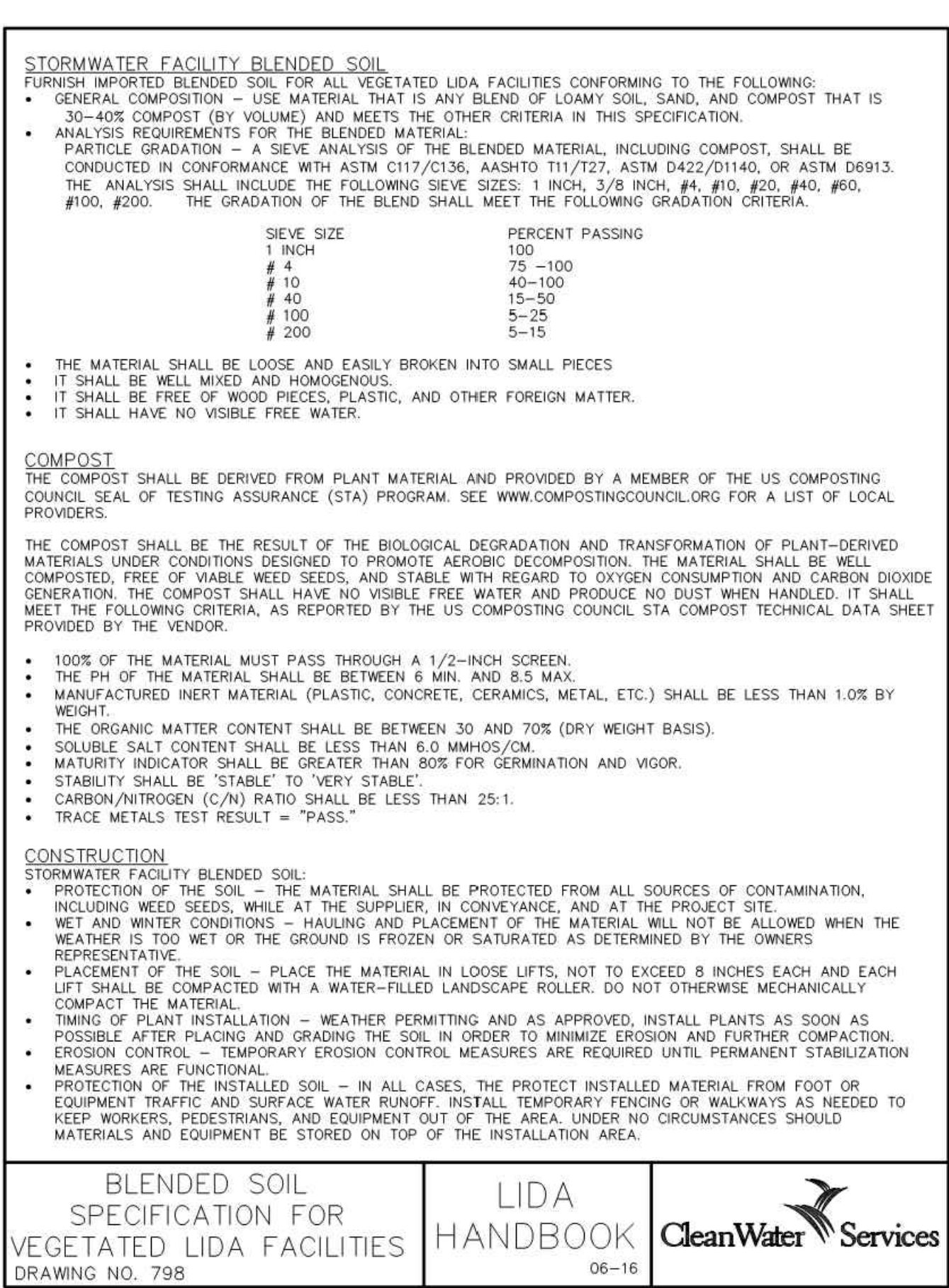
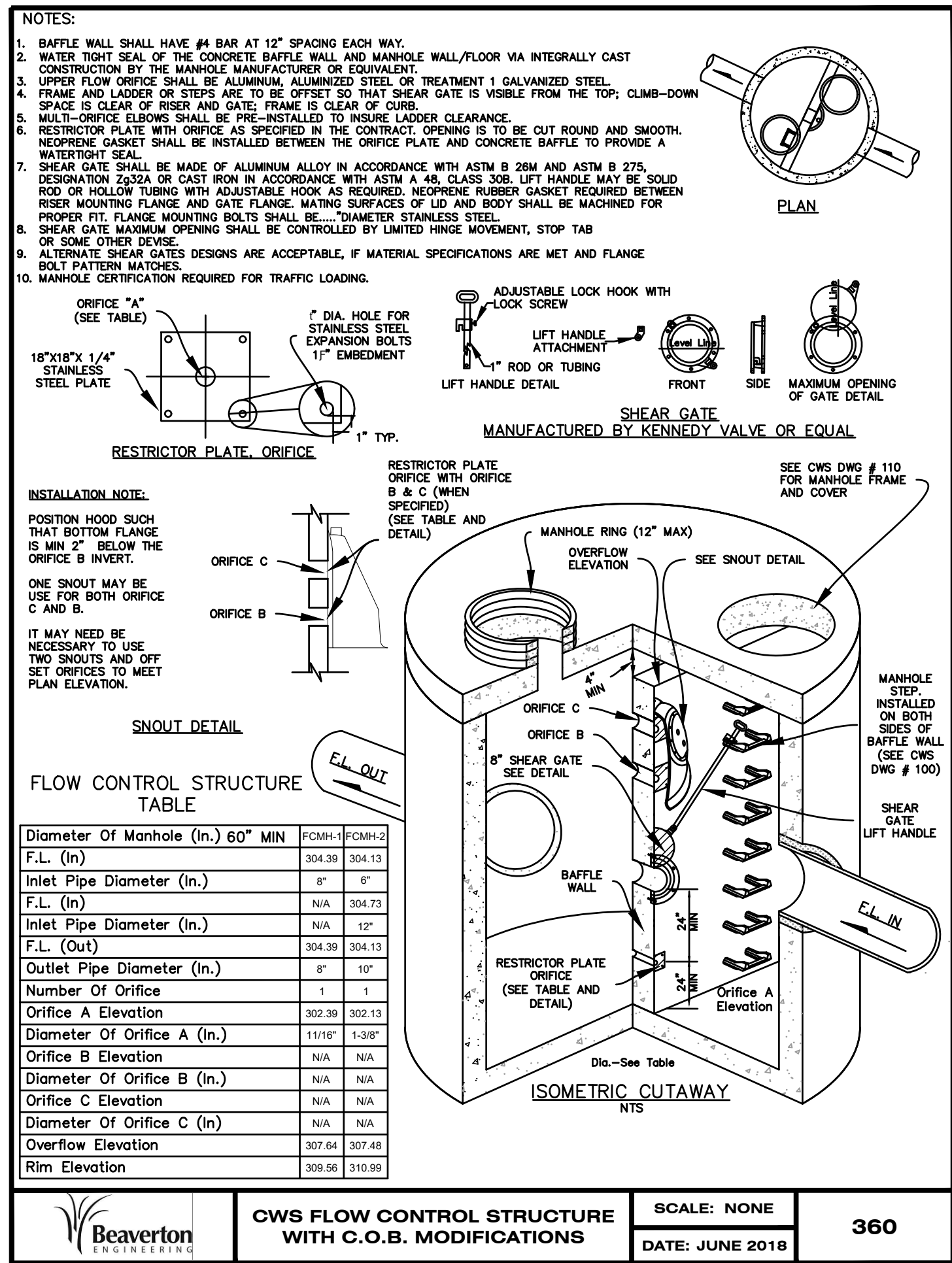
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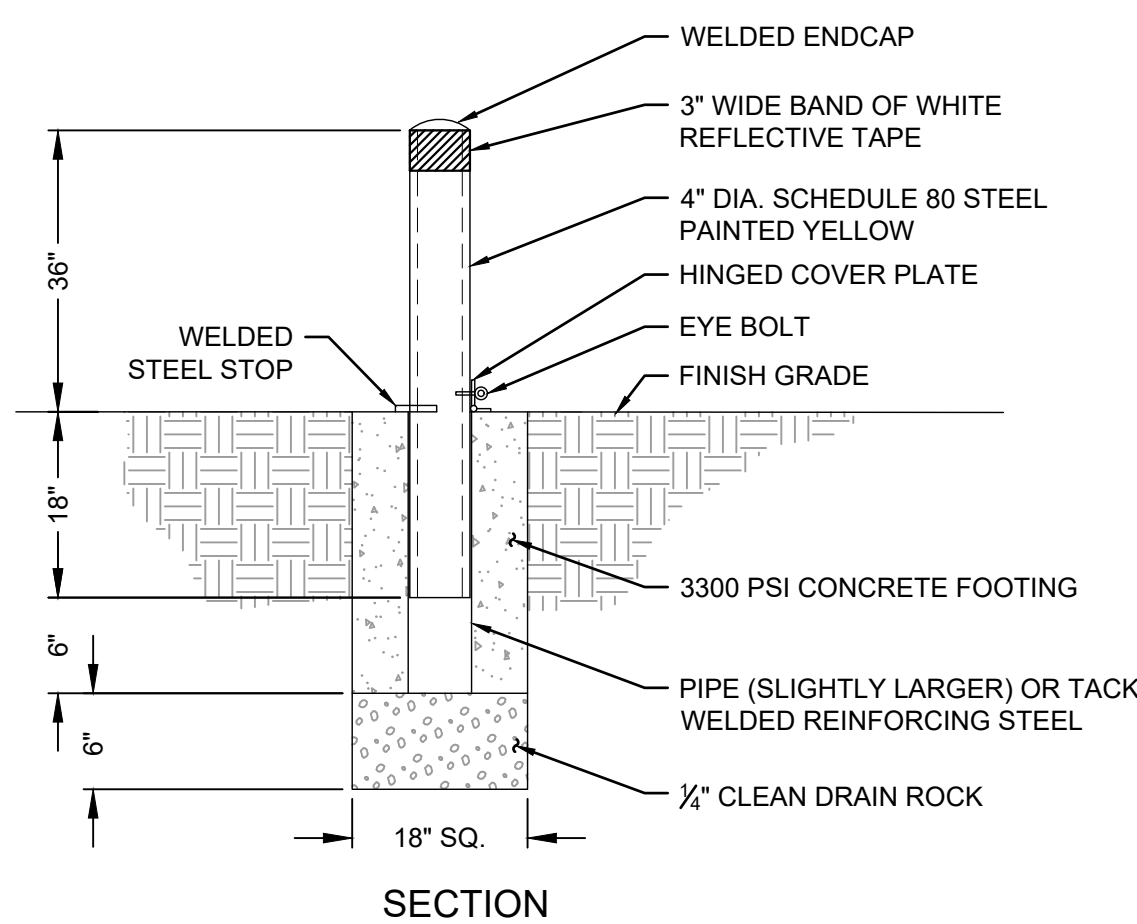
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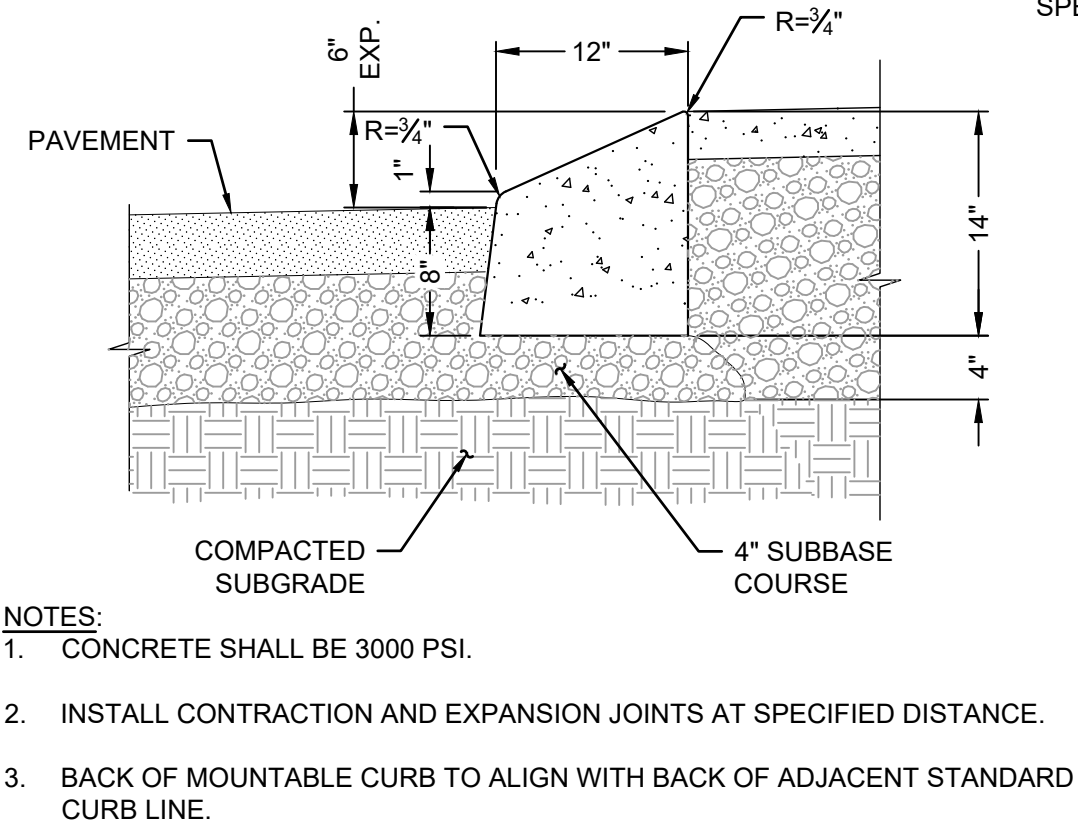


1 RAIN GARDEN, TYPE 1
SCALE: NTS

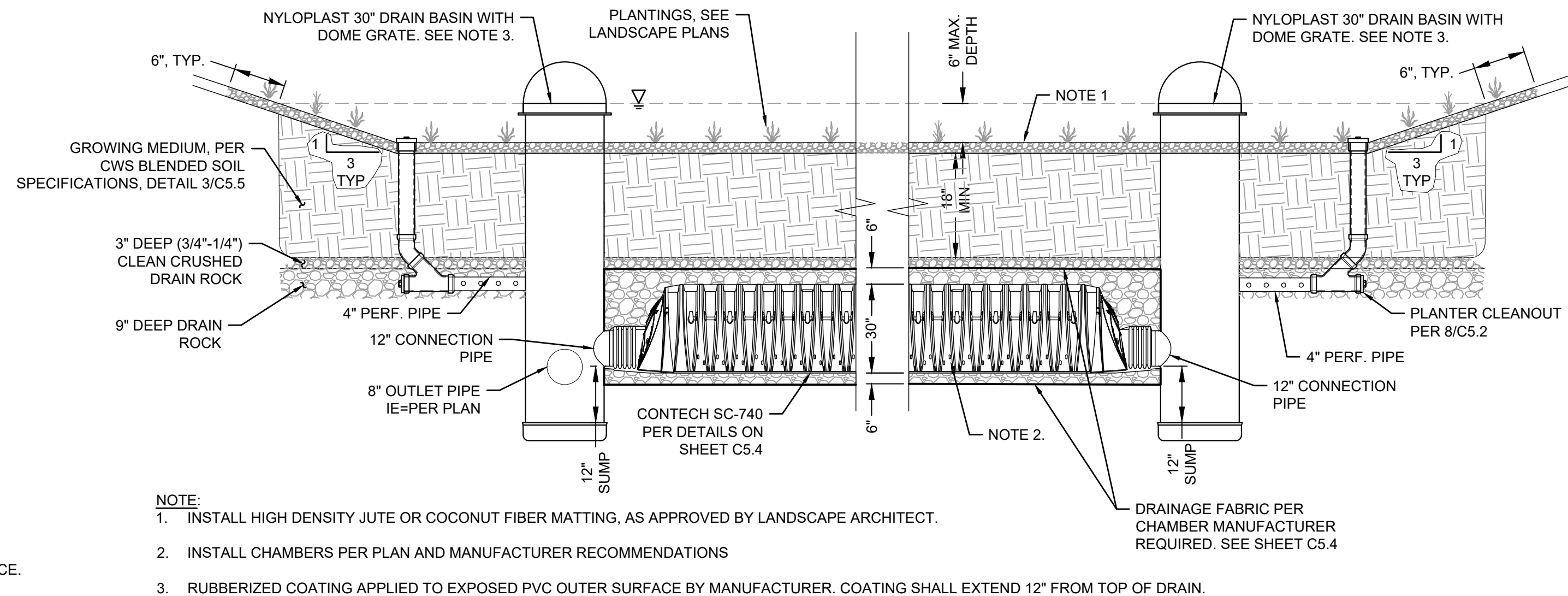
3 BLENDED SOIL SPECIFICATION
SCALE: NTS



5 REMOVABLE PIPE BOLLARD
SCALE: NTS



4 MOUNTABLE CONCRETE CURB
SCALE: NTS



2 RAIN GARDEN, TYPE 2
SCALE: NTS



PRELIMINARY
NOT FOR
CONSTRUCTION



PETERKORT
TOWNE SQUARE
STARBUCKS

PK21052
Original Issue: 06.21.2023
Drawn/Check By: BLU/EME

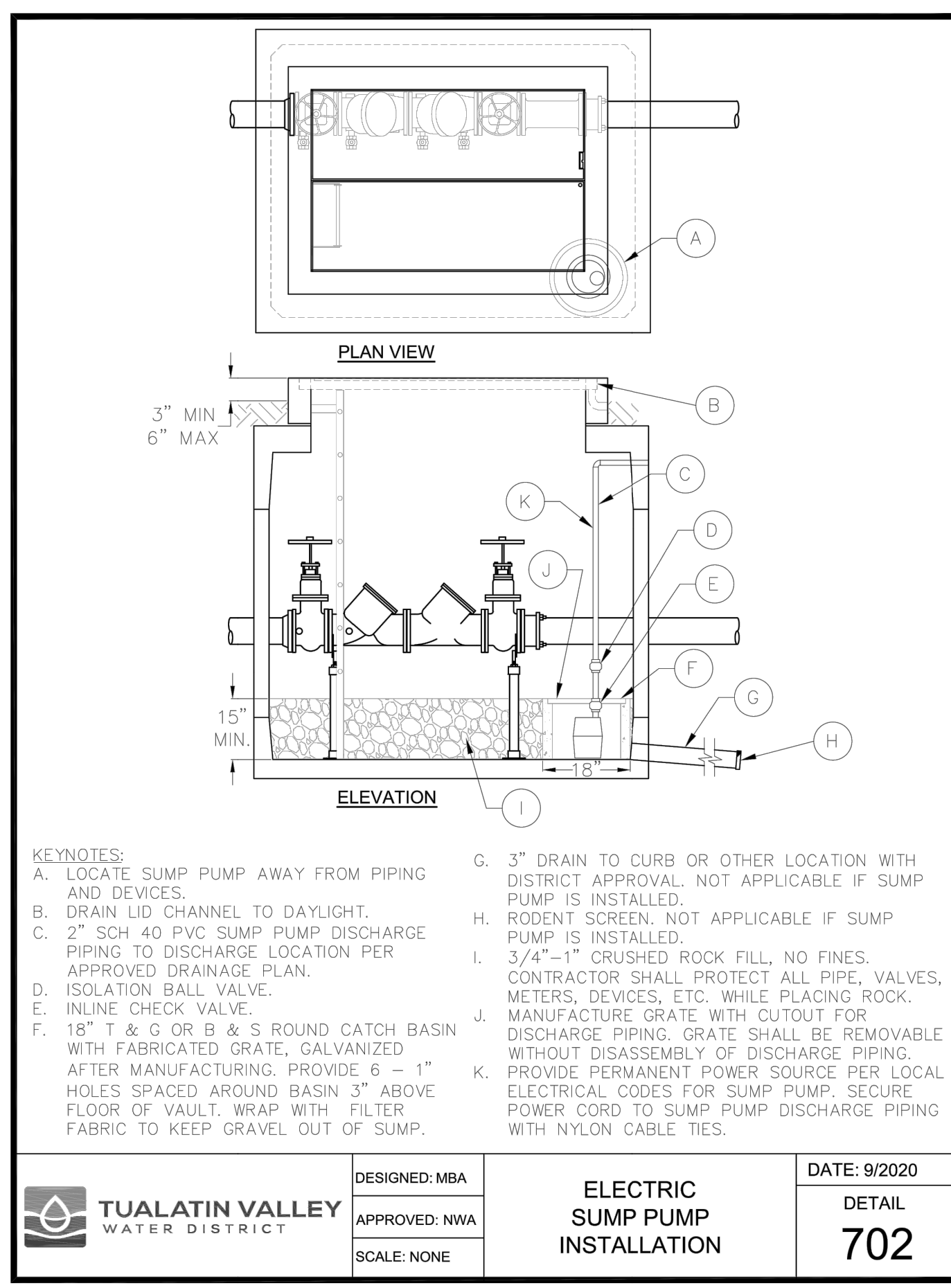
PROPOSED
PHASE 2
TYPICAL
DETAILS

C5.5
DESIGN REVIEW

PRELIMINARY
NOT FOR
CONSTRUCTION

Revisions

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ELECTRIC SUMP PUMP INSTALLATION

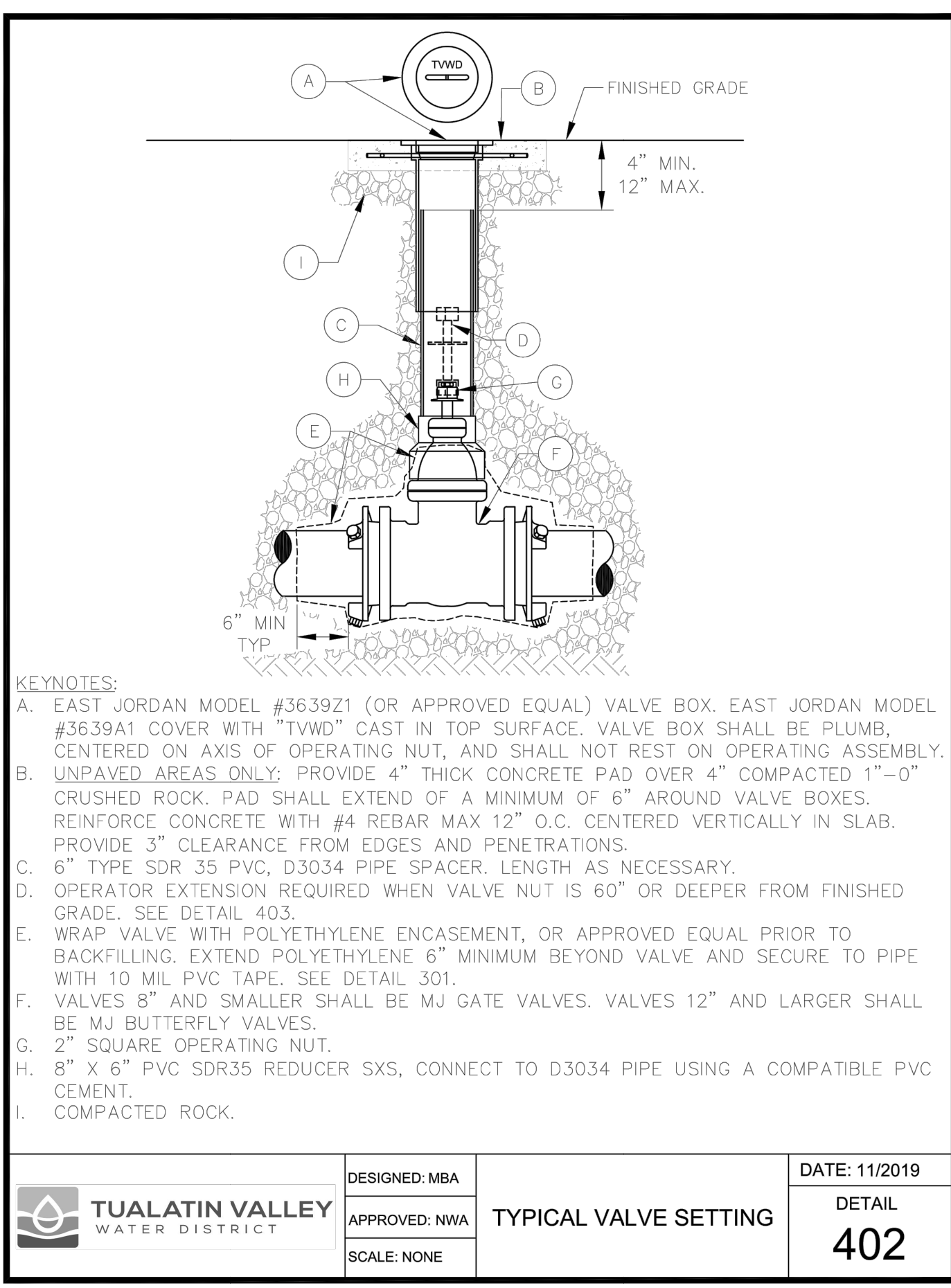
DESIGNED: MBA
APPROVED: NWA
SCALE: NONE

DATE: 9/2020
DETAIL 702

TUALATIN VALLEY WATER DISTRICT

KEYNOTES:

- LOCATE SUMP PUMP AWAY FROM PIPING AND DEVICES.
- DRAIN LID CHANNEL TO DAYLIGHT.
- 2" SCH 40 PVC SUMP PUMP DISCHARGE PIPING TO DISCHARGE LOCATION PER APPROVED DRAINAGE PLAN.
- ISOLATION BALL VALVE.
- INLINE CHECK VALVE.
- 18" T & G OR B & S ROUND CATCH BASIN WITH FABRICATED GRATE, GALVANIZED AFTER MANUFACTURING. PROVIDE 6 - 1" HOLES SPACED AROUND BASIN 3" ABOVE FLOOR OF VAULT. WRAP WITH FILTER FABRIC TO KEEP GRAVEL OUT OF SUMP.
- 3" DRAIN TO CURB OR OTHER LOCATION WITH DISTRICT APPROVAL. NOT APPLICABLE IF SUMP PUMP IS INSTALLED.
- RODENT SCREEN. NOT APPLICABLE IF SUMP PUMP IS INSTALLED.
- 3/4"-1" CRUSHED ROCK FILL, NO FINES. CONTRACTOR SHALL PROTECT ALL PIPE, VALVES, METERS, DEVICES, ETC. WHILE PLACING ROCK.
- MANUFACTURE GRATE WITH CUTOFF FOR DISCHARGE PIPING. GRATE SHALL BE REMOVABLE WITHOUT DISASSEMBLY OF DISCHARGE PIPING.
- PROVIDE PERMANENT POWER SOURCE PER LOCAL ELECTRICAL CODES FOR SUMP PUMP. SECURE POWER CORD TO SUMP PUMP DISCHARGE PIPING WITH NYLON CABLE TIES.



TYPICAL VALVE SETTING

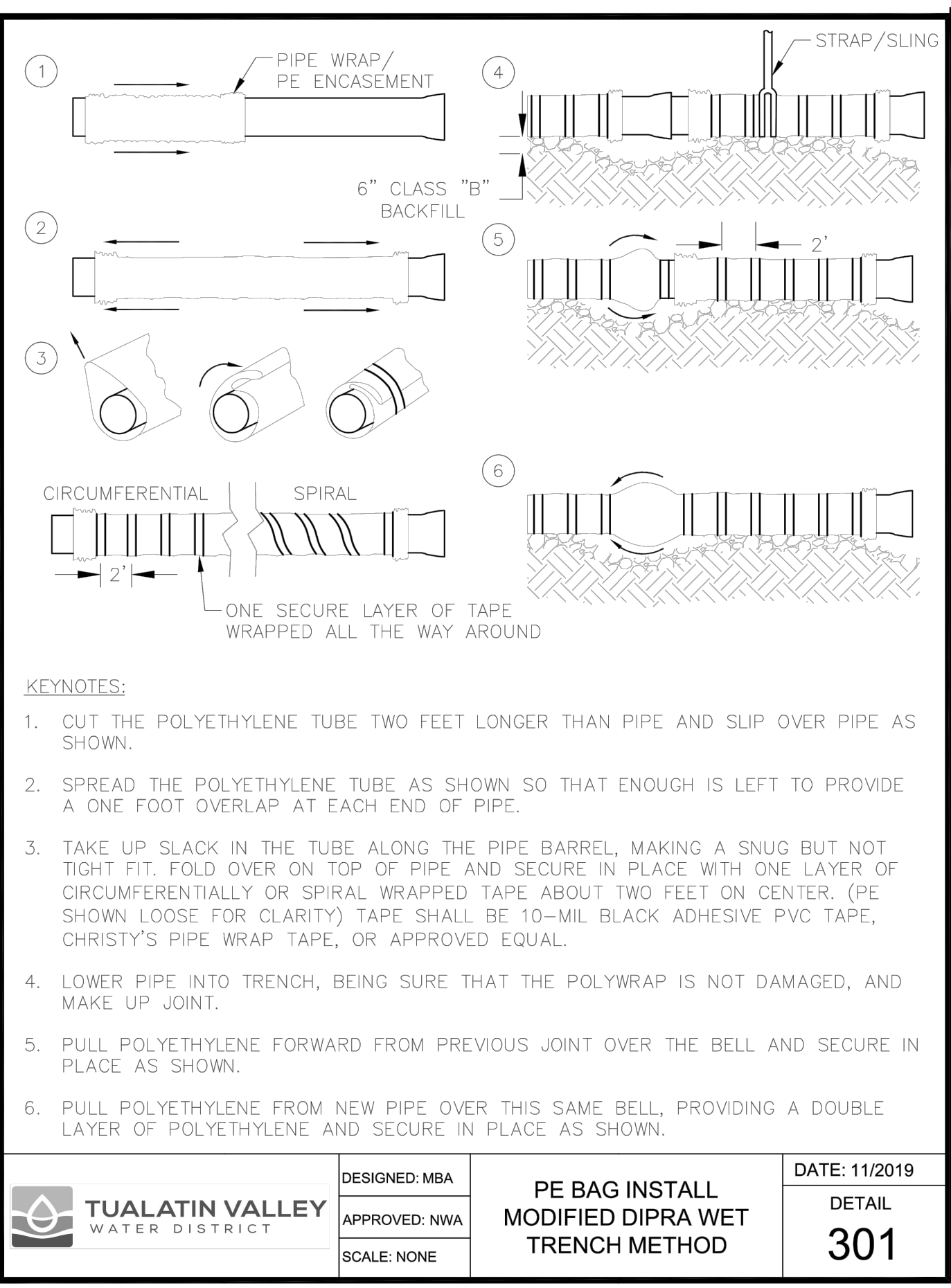
DESIGNED: MBA
APPROVED: NWA
SCALE: NONE

DATE: 11/2019
DETAIL 402

TUALATIN VALLEY WATER DISTRICT

KEYNOTES:

- EAST JORDAN MODEL #3639Z1 (OR APPROVED EQUAL) VALVE BOX. EAST JORDAN MODEL #3639A1 COVER WITH "TWVD" CAST IN TOP SURFACE. VALVE BOX SHALL BE PLUMB, CENTERED ON AXIS OF OPERATING NUT, AND SHALL NOT REST ON OPERATING ASSEMBLY. UNPAVED AREAS ONLY. PROVIDE 4" THICK CONCRETE PAD OVER 4" COMPACTED 1"-0" CRUSHED ROCK. PAD SHALL EXTEND OF A MINIMUM OF 6" AROUND VALVE BOXES. REINFORCE CONCRETE WITH #4 REBAR MAX 12" O.C. CENTERED VERTICALLY IN SLAB. PROVIDE 3" CLEARANCE FROM EDGES AND PENETRATIONS.
- 6" TYPE SDR 35 PVC, D3034 PIPE SPACER. LENGTH AS NECESSARY.
- WRAP VALVE WITH POLYETHYLENE ENCASEMENT, OR APPROVED EQUAL PRIOR TO BACKFILLING. EXTEND POLYETHYLENE 6" MINIMUM BEYOND VALVE AND SECURE TO PIPE WITH 10 MIL PVC TAPE. SEE DETAIL 301.
- VALVES 8" AND SMALLER SHALL BE MJ GATE VALVES. VALVES 12" AND LARGER SHALL BE MJ BUTTERFLY VALVES.
- 2" SQUARE OPERATING NUT.
- 8" X 6" PVC SDR35 REDUCER SX5, CONNECT TO D3034 PIPE USING A COMPATIBLE PVC CEMENT.
- COMPACTED ROCK.



PE BAG INSTALL MODIFIED DIPRA WET TRENCH METHOD

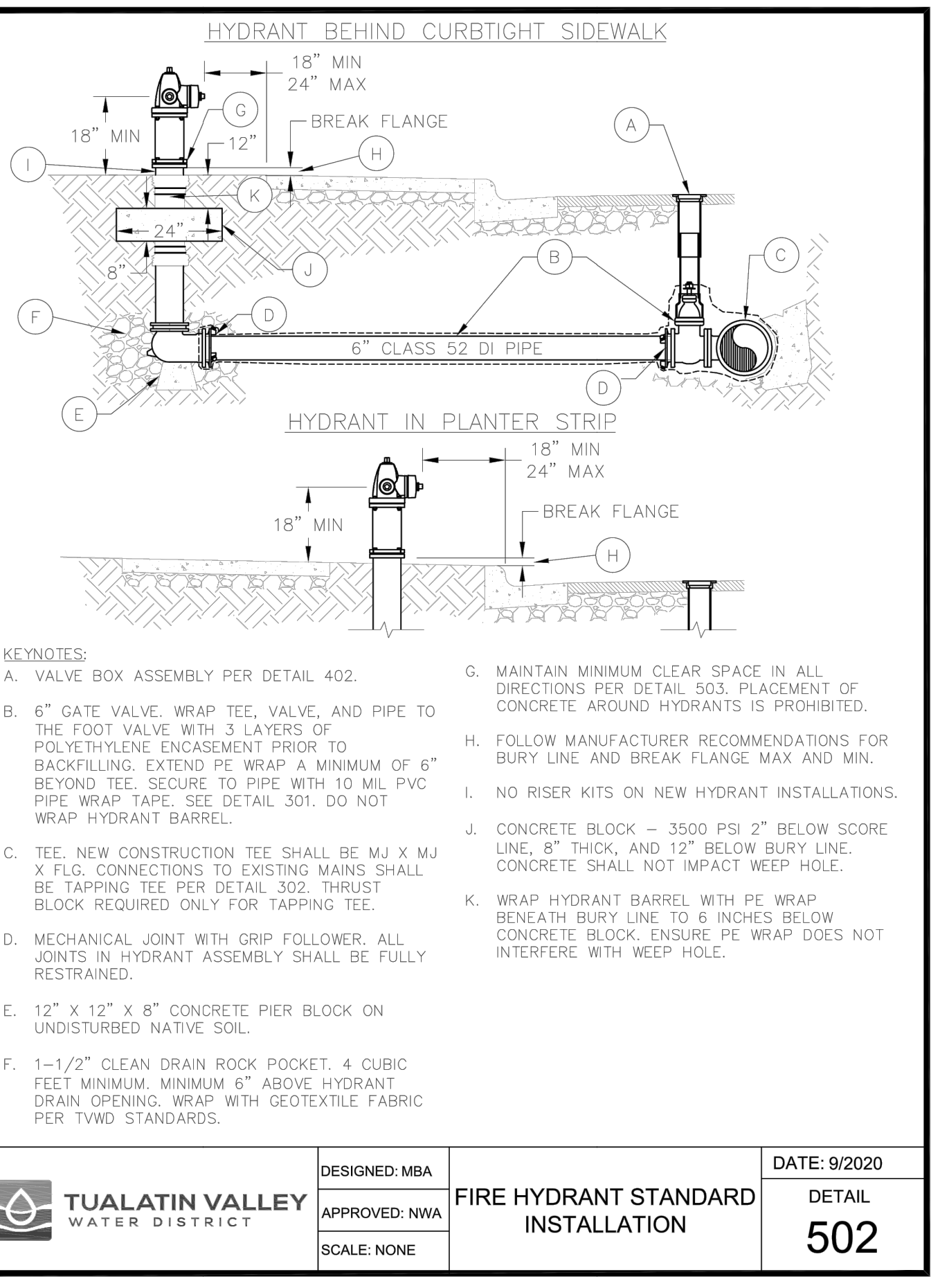
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APPROVED: NWA
SCALE: NONE

DATE: 11/2019
DETAIL 301

TUALATIN VALLEY WATER DISTRICT

KEYNOTES:

- CUT THE POLYETHYLENE TUBE TWO FEET LONGER THAN PIPE AND SLIP OVER PIPE AS SHOWN.
- SPREAD THE POLYETHYLENE TUBE AS SHOWN SO THAT ENOUGH IS LEFT TO PROVIDE A ONE FOOT OVERLAP AT EACH END OF PIPE.
- TAKE UP SLACK IN THE TUBE ALONG THE PIPE BARREL, MAKING A SNUG BUT NOT TIGHT FIT. FOLD OVER ON TOP OF PIPE AND SECURE IN PLACE WITH ONE LAYER OF CIRCUMFERENTIALLY OR SPIRAL WRAPPED TAPE ABOUT TWO FEET ON CENTER. (PE SHOWN LOOSE FOR CLARITY) TAPE SHALL BE 10-MIL BLACK ADHESIVE PVC TAPE, CHRISTY'S PIPE WRAP TAPE, OR APPROVED EQUAL.
- LOWER PIPE INTO TRENCH, BEING SURE THAT THE POLYWRAP IS NOT DAMAGED, AND MAKE UP JOINT.
- PULL POLYETHYLENE FORWARD FROM PREVIOUS JOINT OVER THE BELL AND SECURE IN PLACE AS SHOWN.
- PULL POLYETHYLENE FROM NEW PIPE OVER THIS SAME BELL, PROVIDING A DOUBLE LAYER OF POLYETHYLENE AND SECURE IN PLACE AS SHOWN.



FIRE HYDRANT STANDARD INSTALLATION

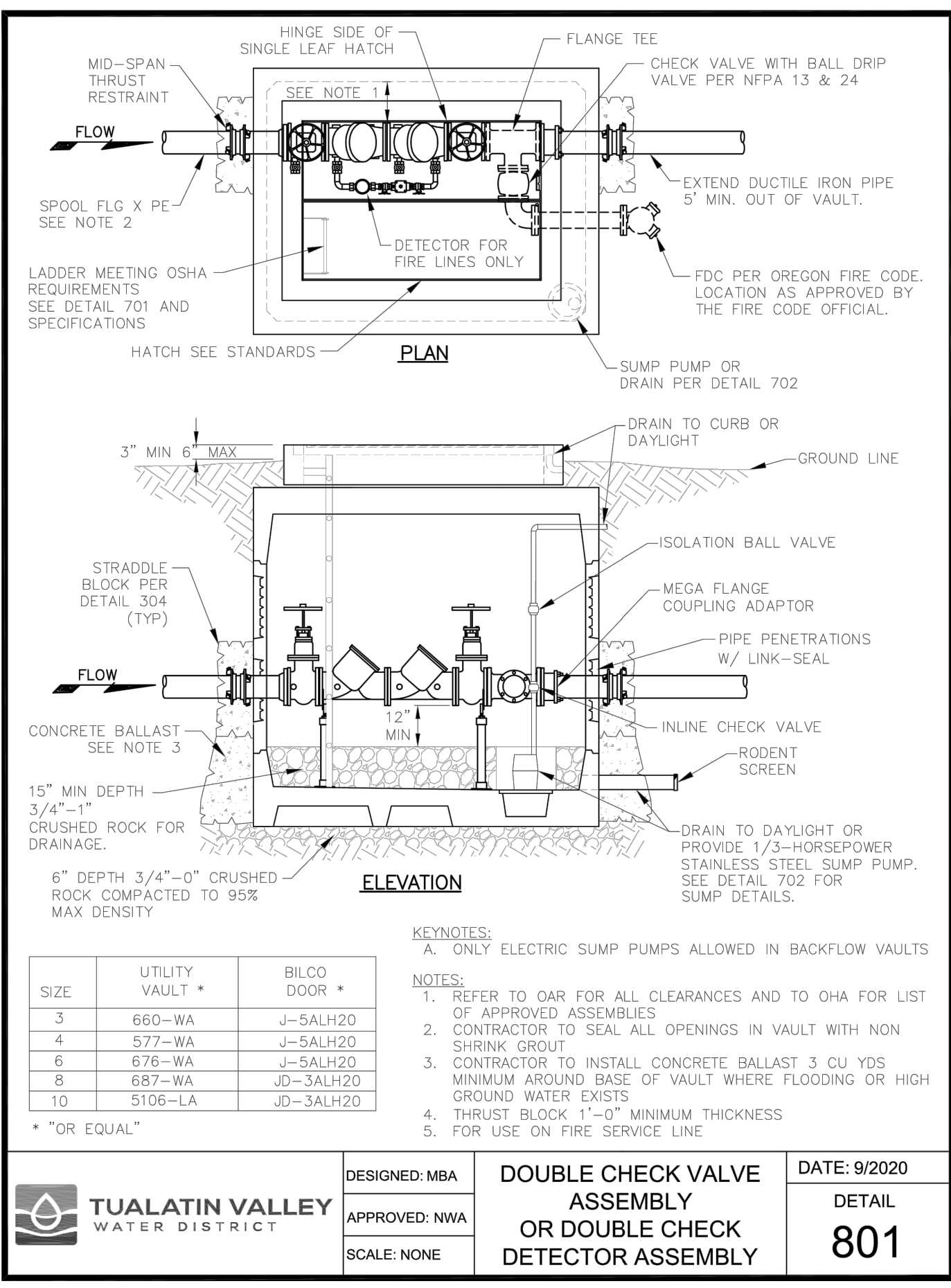
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APPROVED: NWA
SCALE: NONE

DATE: 9/2020
DETAIL 502

TUALATIN VALLEY WATER DISTRICT

KEYNOTES:

- VALVE BOX ASSEMBLY PER DETAIL 402.
- 6" GATE VALVE. WRAP TEE, VALVE, AND PIPE TO THE FOOT VALVE WITH 3 LAYERS OF POLYETHYLENE ENCASEMENT PRIOR TO BACKFILLING. EXTEND PE WRAP A MINIMUM OF 6" BEYOND TEE. SECURE TO PIPE WITH 10 MIL PVC PIPE WRAP TAPE. SEE DETAIL 301. DO NOT WRAP HYDRANT BARREL.
- TEE. NEW CONSTRUCTION TEE SHALL BE MJ X MJ X FLC. CONNECTIONS TO EXISTING MAINS SHALL BE TAPPING TEE PER DETAIL 302. THRUST BLOCK REQUIRED ONLY FOR TAPPING TEE.
- MECHANICAL JOINT WITH GRIP FOLLOWER. ALL JOINTS IN HYDRANT ASSEMBLY SHALL BE FULLY RESTRAINED.
- 12" X 12" X 8" CONCRETE PIER BLOCK ON UNDISTURBED NATIVE SOIL.
- 1-1/2" CLEAN DRAIN ROCK POCKET. 4 CUBIC FEET MINIMUM. MINIMUM 6" ABOVE HYDRANT DRAIN OPENING. WRAP WITH GEOTEXTILE FABRIC PER TWVD STANDARDS.
- MAINTAIN MINIMUM CLEAR SPACE IN ALL DIRECTIONS PER DETAIL 503. PLACEMENT OF CONCRETE AROUND HYDRANTS IS PROHIBITED.
- FOLLOW MANUFACTURER RECOMMENDATIONS FOR BURY LINE AND BREAK FLANGE MAX AND MIN.
- NO RISER KITS ON NEW HYDRANT INSTALLATIONS.
- CONCRETE BLOCK - 3500 PSI 2" BELOW SCORE LINE, 8" THICK, AND 12" BELOW BURY LINE. CONCRETE SHALL NOT IMPACT WEEP HOLE.
- WRAP HYDRANT BARREL WITH PE WRAP BENEATH BURY LINE TO 6 INCHES BELOW CONCRETE BLOCK. ENSURE PE WRAP DOES NOT INTERFERE WITH WEEP HOLE.



DOUBLE CHECK VALVE ASSEMBLY OR DOUBLE CHECK DETECTOR ASSEMBLY

DESIGNED: MBA
APPROVED: NWA
SCALE: NONE

DATE: 9/2020
DETAIL 801

TUALATIN VALLEY WATER DISTRICT

KEYNOTES:

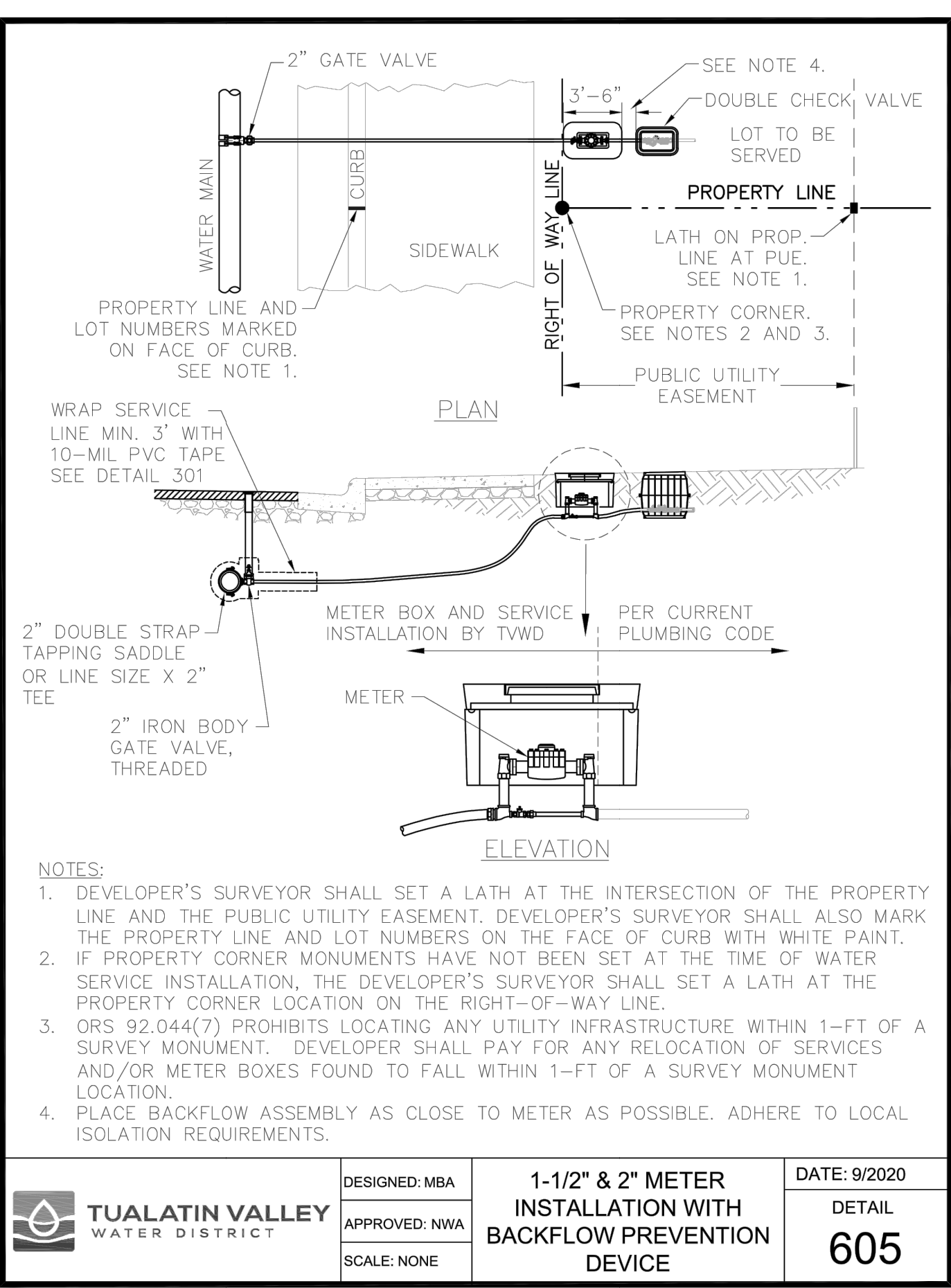
- ONLY ELECTRIC SUMP PUMPS ALLOWED IN BACKFLOW VAULTS

NOTES:

- REFER TO OAR FOR ALL CLEARANCES AND TO OHA FOR LIST OF APPROVED ASSEMBLIES
- CONTRACTOR TO SEAL ALL OPENINGS IN VAULT WITH NON SHRINK GROUT
- CONTRACTOR TO INSTALL CONCRETE BALLAST 3 CU YDS MINIMUM AROUND BASE OF VAULT WHERE FLOODING OR HIGH GROUND WATER EXISTS
- THRUST BLOCK 1"-0" MINIMUM THICKNESS
- FOR USE ON FIRE SERVICE LINE

SIZE	UTILITY VAULT *	BILCO DOOR *
3	660-WA	J-5ALH20
4	577-WA	J-5ALH20
6	676-WA	J-5ALH20
8	687-WA	JD-3ALH20
10	5106-LA	JD-3ALH20

* "OR EQUAL"



1-1/2" & 2" METER INSTALLATION WITH BACKFLOW PREVENTION DEVICE

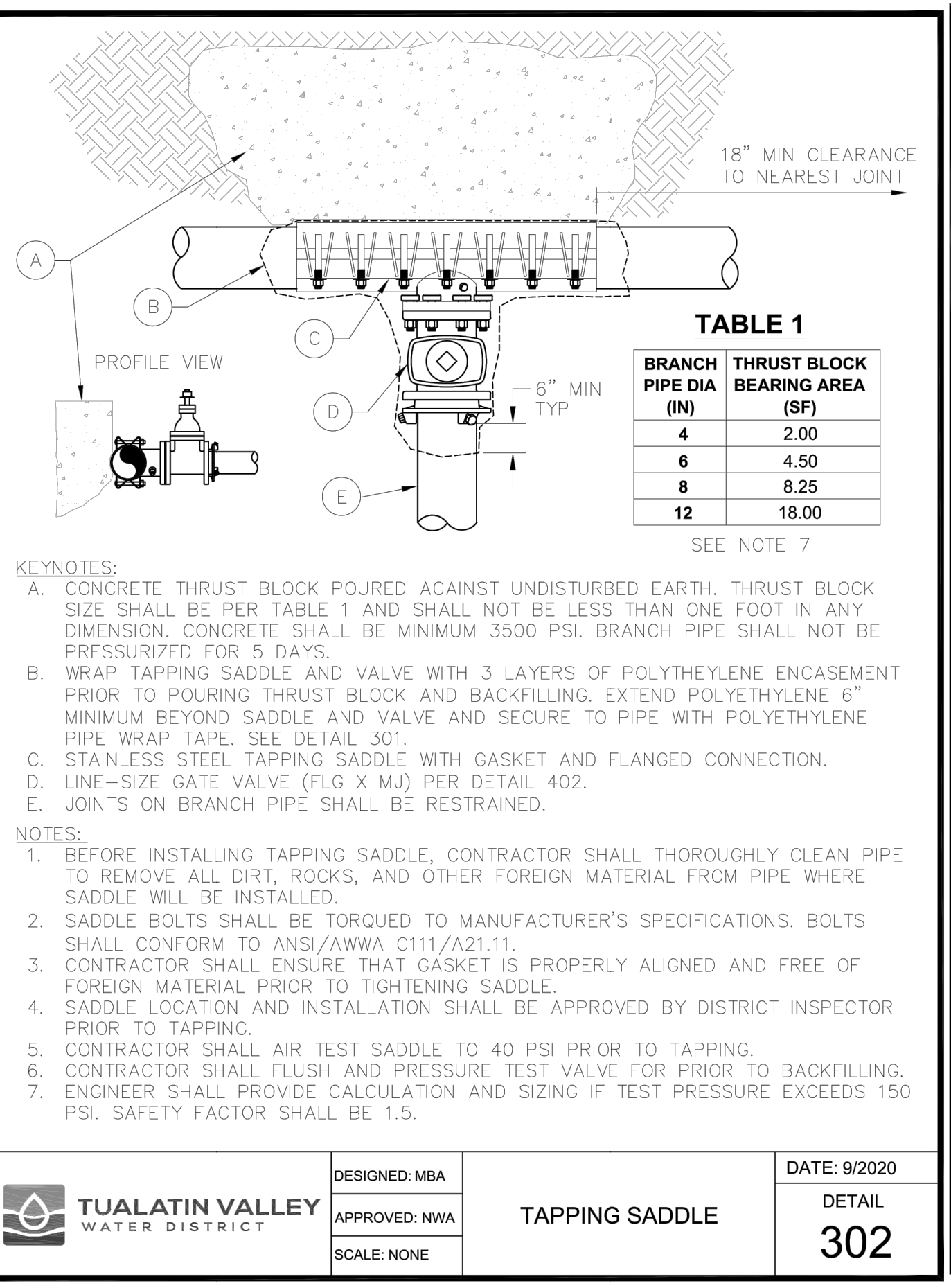
DESIGNED: MBA
APPROVED: NWA
SCALE: NONE

DATE: 9/2020
DETAIL 605

TUALATIN VALLEY WATER DISTRICT

NOTES:

- DEVELOPER'S SURVEYOR SHALL SET A LATH AT THE INTERSECTION OF THE PROPERTY LINE AND THE PUBLIC UTILITY EASEMENT. DEVELOPER'S SURVEYOR SHALL ALSO MARK THE PROPERTY LINE AND LOT NUMBERS ON THE FACE OF CURB WITH WHITE PAINT.
- IF PROPERTY CORNER MONUMENTS HAVE NOT BEEN SET AT THE TIME OF WATER SERVICE INSTALLATION, THE DEVELOPER'S SURVEYOR SHALL SET A LATH AT THE PROPERTY CORNER LOCATION ON THE RIGHT-OF-WAY LINE.
- ORS 92.044(7) PROHIBITS LOCATING ANY UTILITY INFRASTRUCTURE WITHIN 1'-FT OF A SURVEY MONUMENT. DEVELOPER SHALL PAY FOR ANY RELOCATION OF SERVICES AND/OR METER BOXES FOUND TO FALL WITHIN 1'-FT OF A SURVEY MONUMENT LOCATION.
- PLACE BACKFLOW ASSEMBLY AS CLOSE TO METER AS POSSIBLE. ADHERE TO LOCAL ISOLATION REQUIREMENTS.



TAPPING SADDLE

DESIGNED: MBA
APPROVED: NWA
SCALE: NONE

DATE: 9/2020
DETAIL 302

TUALATIN VALLEY WATER DISTRICT

KEYNOTES:

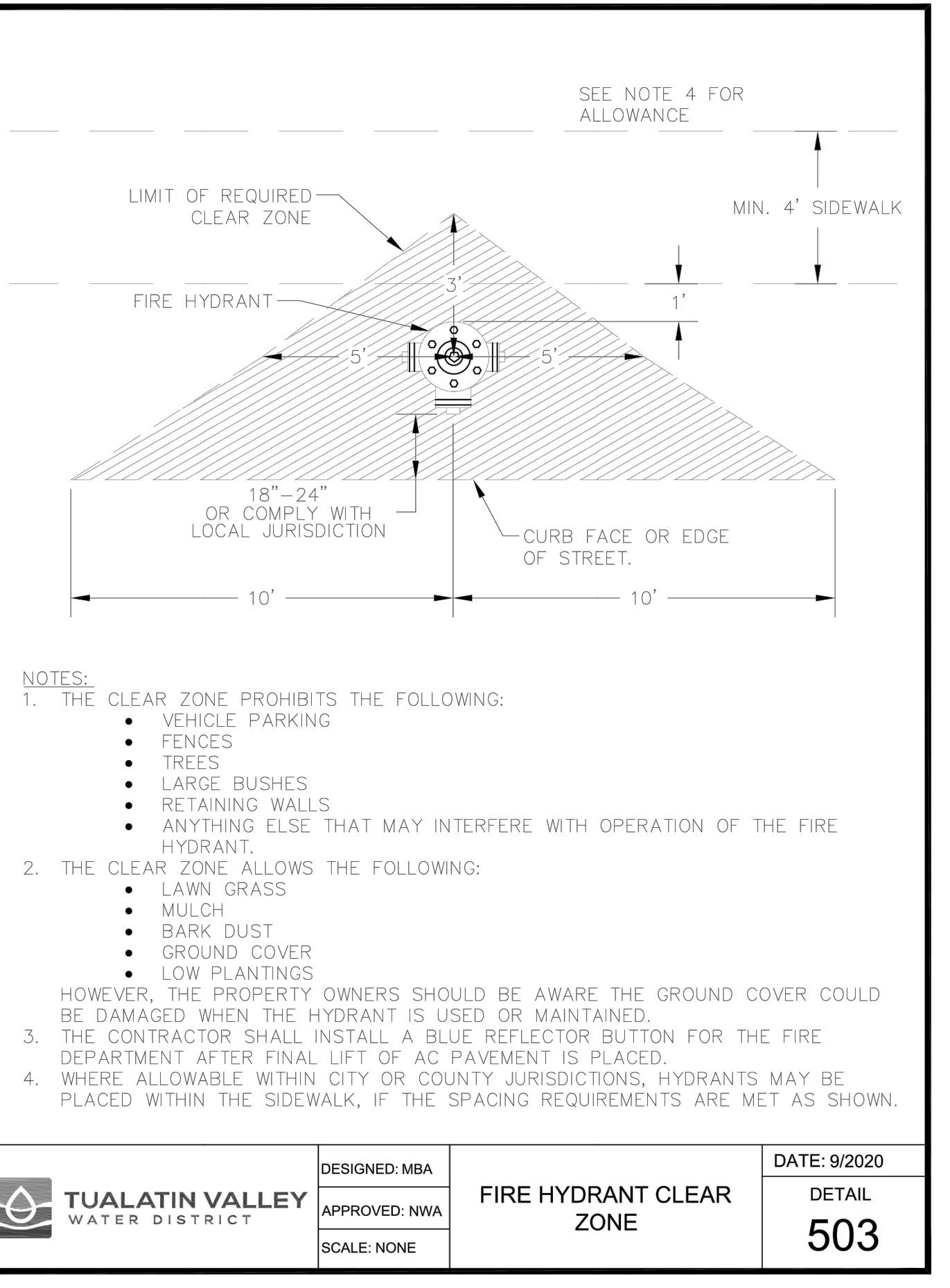
- CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH. THRUST BLOCK SIZE SHALL BE PER TABLE 1 AND SHALL NOT BE LESS THAN ONE FOOT IN ANY DIMENSION. CONCRETE SHALL BE MINIMUM 3500 PSI. BRANCH PIPE SHALL NOT BE PRESSURIZED FOR 5 DAYS.
- WRAP TAPPING SADDLE AND VALVE WITH 3 LAYERS OF POLYETHYLENE ENCASEMENT PRIOR TO POURING THRUST BLOCK AND BACKFILLING. EXTEND POLYETHYLENE 6" MINIMUM BEYOND SADDLE AND VALVE AND SECURE TO PIPE WITH POLYETHYLENE PIPE WRAP TAPE. SEE DETAIL 301.
- STAINLESS STEEL TAPPING SADDLE WITH GASKET AND FLANGED CONNECTION.
- LINE-SIZE GATE VALVE (FLG X MJ) PER DETAIL 402.
- JOINTS ON BRANCH PIPE SHALL BE RESTRAINED.

NOTES:

- BEFORE INSTALLING TAPPING SADDLE, CONTRACTOR SHALL THOROUGHLY CLEAN PIPE TO REMOVE ALL DIRT, ROCKS, AND OTHER FOREIGN MATERIAL FROM PIPE WHERE SADDLE WILL BE INSTALLED.
- SADDLE BOLTS SHALL BE TORQUED TO MANUFACTURER'S SPECIFICATIONS. BOLTS SHALL CONFORM TO ANSI/AWWA C111/A21.11.
- CONTRACTOR SHALL ENSURE THAT GASKET IS PROPERLY ALIGNED AND FREE OF FOREIGN MATERIAL PRIOR TO TIGHTENING SADDLE.
- SADDLE LOCATION AND INSTALLATION SHALL BE APPROVED BY DISTRICT INSPECTOR PRIOR TO TAPPING.
- CONTRACTOR SHALL AIR TEST SADDLE TO 40 PSI PRIOR TO TAPPING.
- CONTRACTOR SHALL FLUSH AND PRESSURE TEST VALVE FOR PRIOR TO BACKFILLING. ENGINEER SHALL PROVIDE CALCULATION AND SIZING IF TEST PRESSURE EXCEEDS 150 PSI. SAFETY FACTOR SHALL BE 1.5.

BRANCH PIPE DIA (IN)	THRUST BLOCK BEARING AREA (SF)
4	2.00
6	4.50
8	8.25
12	18.00

SEE NOTE 7



FIRE HYDRANT CLEAR ZONE

DESIGNED: MBA
APPROVED: NWA
SCALE: NONE

DATE: 9/2020
DETAIL 503

TUALATIN VALLEY WATER DISTRICT

NOTES:

- THE CLEAR ZONE PROHIBITS THE FOLLOWING:
 - VEHICLE PARKING
 - FENCES
 - TREES
 - LARGE BUSHES
 - RETAINING WALLS
 - ANYTHING ELSE THAT MAY INTERFERE WITH OPERATION OF THE FIRE HYDRANT.
- THE CLEAR ZONE ALLOWS THE FOLLOWING:
 - LAWN GRASS
 - MULCH
 - BARK DUST
 - GROUND COVER
 - LOW PLANTINGS

HOWEVER, THE PROPERTY OWNERS SHOULD BE AWARE THE GROUND COVER COULD BE DAMAGED WHEN THE HYDRANT IS USED OR MAINTAINED.

- THE CONTRACTOR SHALL INSTALL A BLUE REFLECTOR BUTTON FOR THE FIRE DEPARTMENT AFTER FINAL LIFT OF AC PAVEMENT IS PLACED.
- WHERE ALLOWABLE WITHIN CITY OR COUNTY JURISDICTIONS, HYDRANTS MAY BE PLACED WITHIN THE SIDEWALK, IF THE SPACING REQUIREMENTS ARE MET AS SHOWN.

ESC PLAN FOR SITES 1 TO 5 ACRES



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Revisions

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Original Issue: 06.21.2023
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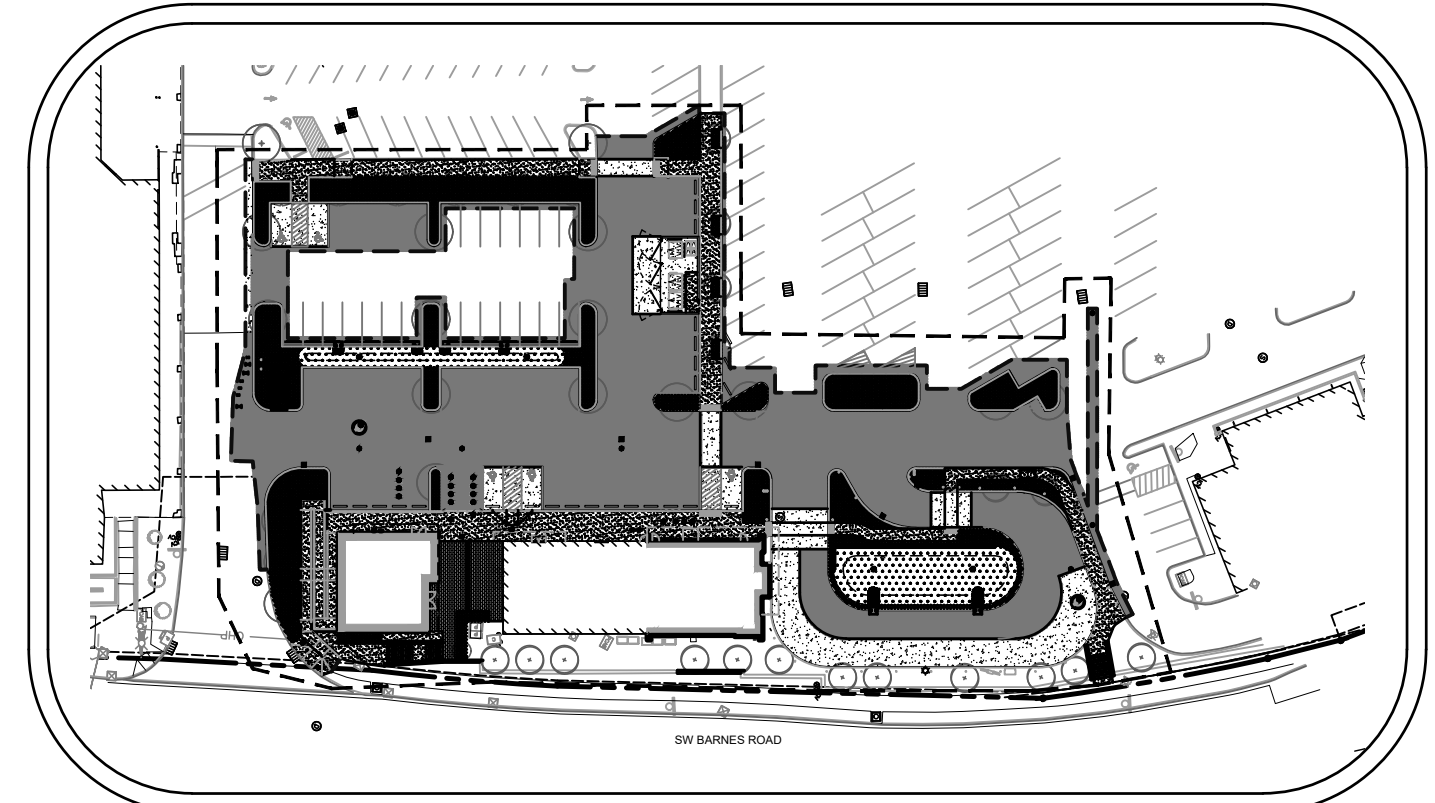
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PROPOSED PHASE 2 EROSION AND SEDIMENT CONTROL COVER SHEET

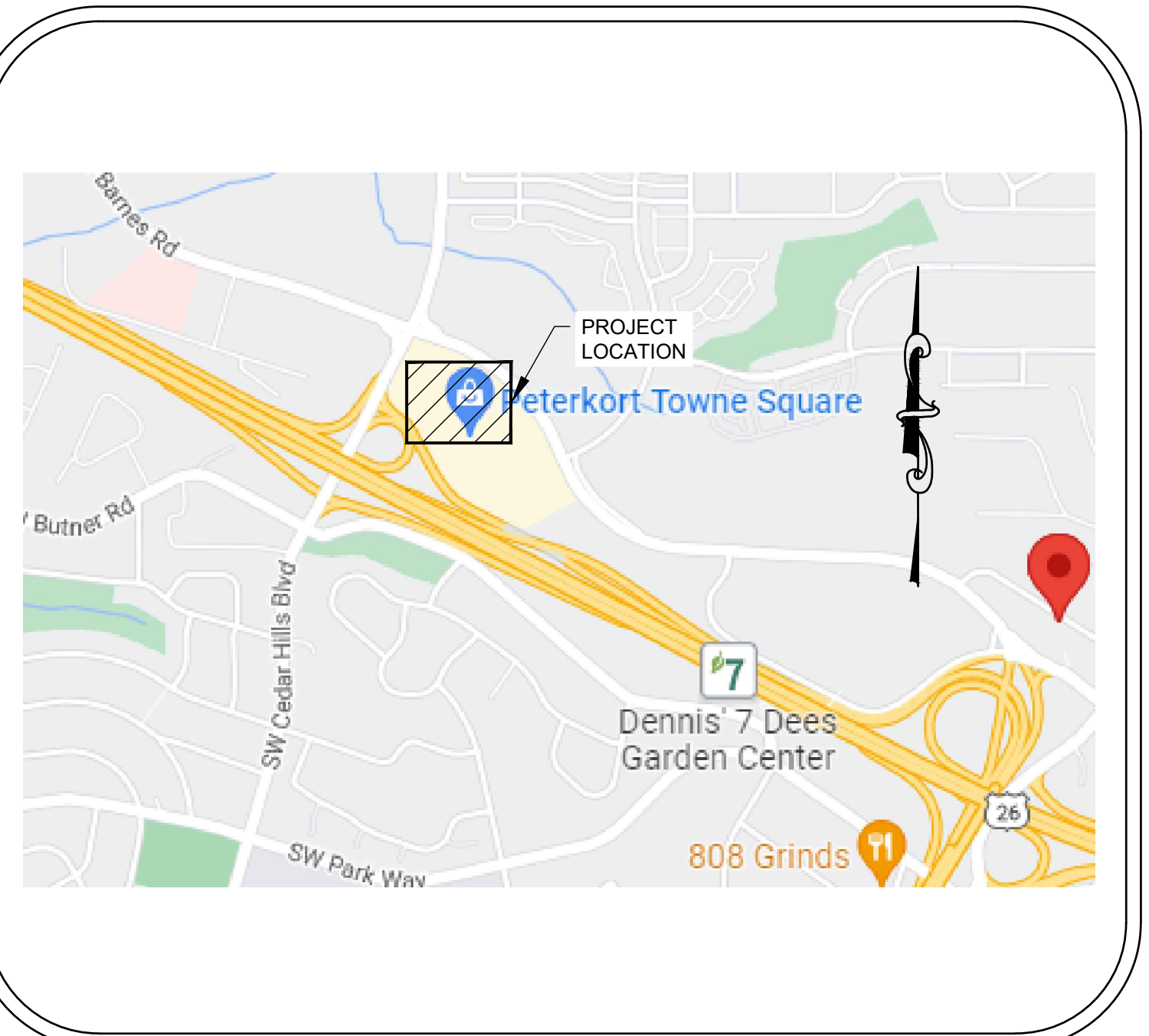
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DESIGN REVIEW

STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:

- ONCE KNOWN, INCLUDE A LIST OF ALL CONTRACTORS THAT WILL ENGAGE IN CONSTRUCTION ACTIVITIES ON SITE, AND THE AREAS OF THE SITE WHERE THE CONTRACTOR(S) WILL ENGAGE IN CONSTRUCTION ACTIVITIES. REVISE THE LIST AS APPROPRIATE UNTIL PERMIT COVERAGE IS TERMINATED (SECTION 4.4.C.I). IN ADDITION, INCLUDE A LIST OF ALL PERSONNEL (BY NAME AND POSITION) THAT ARE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES (E.G. ESCP DEVELOPER, BMP INSTALLER (SEE SECTION 4.10), AS WELL AS THEIR INDIVIDUAL RESPONSIBILITIES. (SECTION 4.4.C.II)
- VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SECTION 6.5)
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SECTION 6.5.Q)
- RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. (SECTION 4.7)
- THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SECTIONS 4 AND 4.11)
- THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SECTION 4.8)
- SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS. (SECTION 4.9)
- SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2)
- CREATE SMOOTH SURFACES BETWEEN SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORMWATER FROM BYPASSING CONTROLS AND PONDING. (SECTION 2.2.3)
- IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SECTION 2.2.1)
- PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE BUFFER MIX USED. (SECTION 2.2.5)
- MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FOOT OF WATERS OF THE STATE. (SECTION 2.2.4)
- INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SECTIONS 2.1.3)
- CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAM BANKS. (SECTIONS 2.1.1 AND 2.2.16)
- CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SECTIONS 2.2.6 AND 2.2.13)
- ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SECTION 2.2.14)
- APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATION MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS (SECTIONS 2.2.20 AND 2.2.21)
- ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SECTION 2.3.7)
- KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF THE BUSINESS DAY FOR THOSE CONTAINERS THAT ARE ACTIVELY USED THROUGHOUT THE DAY. FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER (1) COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO PREVENT EXPOSURE OF WASTES TO PRECIPITATION, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS (E.G., SECONDARY CONTAINMENT). (SECTION 2.3.7)
- PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES. (SECTION 2.2.7)
- WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SECTION 2.2.7.F)
- CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SECTIONS 1.5 AND 2.3.9)
- ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED. (SECTION 2.2.10)
- PREVENT SOIL COMPACTION IN AREAS WHERE POST-CONSTRUCTION INFILTRATION FACILITIES ARE TO BE INSTALLED. (SECTION 2.2.12)
- USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS, VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SECTIONS 2.2.15 AND 2.3)
- PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROFESSIONAL ENGINEER. (SEE SECTION 2.2.17.A)
- IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/IMPONMENT MUST BE INSTALLED. (SEE SECTIONS 2.2.17 AND 2.2.18)
- PROVIDE A DEWATERING PLAN FOR ACCUMULATED WATER FROM PRECIPITATION AND UNCONTAMINATED GROUNDWATER SEEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES. (SEE SECTION 2.4)
- IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SECTION 2.3)
- USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SECTION 2.2.9)
- THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SECTION 2.3.5)
- IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SECTION 1.2.9)
- TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SECTION 2)
- AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SECTION 2.2.8)
- SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SECTION 2.1.5.B)
- OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SECTION 2.1.5.C)
- CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SECTION 2.1.5.D)
- WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN-UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIMEFRAME. (SECTION 2.2.19.A)
- THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SECTION 2.2.19)
- DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. (SECTION 6.5.F.)
- PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SECTION 2.2.20)
- DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED SOILS MUST BE REMOVED AND DISPOSED OF PROPERLY, UNLESS NEEDED FOR LONG TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE. (SECTION 2.2.21)



SITE MAP
NOT TO SCALE



VICINITY MAP

APPLICANT
BAYSINGER PARTNERS
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2410 N. LOMBARD ST
PORTLAND, OR 97217
PHONE: 503-546-1600

CONTRACTOR
TBD
CONTACT: XXXX
XXXXXX
PORTLAND, OR 97XXX
PHONE: XXX-XXX-XXXX

ENGINEERING FIRM
FROELICH ENGINEERS
CONTACT: EVAN EYKELBOSCH, PE
17700 SW UPPER BOONES FERRY RD
SUITE 115
PORTLAND, OR 97224
PHONE: 503-624-7005

INSPECTION FREQUENCY:

SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	- ON INITIAL DATE THAT LAND DISTURBANCE ACTIVITIES COMMENCE. - WITH 24 HOURS OF ANY STORM EVENT, INCLUDING RUNOFF FROM SNOW MELT, THAT RESULTS IN DISCHARGE TO THE SITE. - AT LEAST ONCE EVERY 14 DAYS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
2. INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS.	THE INSPECTOR MAY REDUCE THE FREQUENCY OF INSPECTIONS IN ANY AREA OF THE SITE WHERE THE STABILIZATION STEPS IN SECTION 2.2.20 HAVE BEEN COMPLETED TO TWICE PER MONTH FOR THE FIRST MONTH, NO LESS THAN 14 CALENDAR DAYS APART, THEN ONCE PER MONTH
3. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF SAFE, ACCESSIBLE AND PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT DISCHARGE POINT OR DOWNSTREAM LOCATION OF THE RECEIVING WATERBODY.
4. PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE SUSPENDED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS.	VISUAL MONITORING INSPECTIONS MAY BE TEMPORARILY SUSPENDED. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.
5. PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE SUSPENDED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS.	VISUAL MONITORING INSPECTIONS MAY BE REDUCED TO ONCE A MONTH, IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200-C PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200-C PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200-C PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

- HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. (SCHEDULE A.8.C.I.(3))
- ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SCHEDULE A.12.B AND SCHEDULE B.1)
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SCHEDULE B.1.C AND B.2)
- RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, THE ABOVE RECORDS MUST BE RETAINED BY THE PERMIT REGISTRANT BUT DO NOT NEED TO BE AT THE CONSTRUCTION SITE. (SCHEDULE B.2.C)

PROJECT LOCATION:
NEAR THE CORNER OF SW CEDAR HILLS BLVD AND SW BARNES RD, WASHINGTON COUNTY, OREGON.
LATITUDE = 45.51548791888526,
LONGITUDE = -122.79163875557494

PROPERTY DESCRIPTION:
TAX LOT 1S103A001600 (WASHINGTON COUNTY TAX MAP) LOCATED IN THE NORTHEAST 1/4 OF SECTION 3, TOWNSHIP 1 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, WASHINGTON COUNTY OREGON

NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS

- * DEVELOPED COMMERCIAL PROPERTY
- * BUILDINGS AND PARKING LOTS

DEVELOPED CONDITIONS

- * REDEVELOPMENT OF SMALL PORTION OF SITE
- * NEW BUILDINGS AND PARKING LOTS

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

- * CLEARING (DATES, FROM & TO: MARCH 2023 - MAY 2023)
- * MASS GRADING (DATES, FROM & TO: MAY 2023 - JUNE 2023)
- * UTILITY INSTALLATION (DATES, FROM & TO: JUNE 2023 - AUG 2023)
- * SITE CONSTRUCTION (DATES, FROM & TO: JULY 2023 - OCT 2023)
- * VERTICAL CONSTRUCTION (DATES, FROM & TO: JULY 2023 - DEC 2023)
- * FINAL STABILIZATION (DATES, FROM & TO: DEC 2023 - JAN 2024)

ESTIMATE OF TOTAL PROJECT SITE AREA

TOTAL ESTIMATED SITE AREA = 716,126 SF = 16.44 ACRES

TOTAL DISTURBED AREA

DISTURBED AREA = 59,971 SF = 1.38 ACRES

SITE SOIL CLASSIFICATION:

- * CORNELIUS AND KINTON SILT LOAMS, 12 TO 20 PERCENT SLOPES
- * HYDROLOGIC SOIL GROUP C

RECEIVING WATER BODIES:

COLLECTED SITE RUNOFF: ONSITE DETENTION AND DISCHARGE TO PUBLIC STORM SYSTEM.
MAJOR DRAINAGE BASIN: JOHNSON CREEK
RECEIVING WATERS: JOHNSON CREEK
RECEIVING WATER BODY WITH TMDL OR 303d FOR TURBIDITY OR SEDIMENTATION: NO

BMP MATRIX: CONSTRUCTION PHASES

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S.

	CLEARING	SITE AND UTILITY	VERTICAL CONSTRUCTION	FINAL STABILIZATION
EROSION PREVENTION				
PRESERVE NATURAL VEGETATION	** X	X	X	X
GROUND COVER			X	X
PLASTIC SHEETING				
MATTING				
DUST CONTROL	X	X	X	
TEMPORARY/PERMANENT SEEDING		X	X	X
SEDIMENT CONTROL				
SEDIMENT FENCE (PERIMETER)	** X	X	X	
STRAW WATTLES		X	X	
INLET PROTECTION	** X	X	X	X
RUN OFF CONTROL				
CONSTRUCTION ENTRANCE	** X	X		
OUTLET PROTECTION				
SURFACE ROUGHENING				
CHECK DAMS				
POLLUTION PREVENTION				
PROPER SIGNAGE	X	X	X	X
HAZ WASTE MGMT	X	X	X	X
SPILL KIT ON-SITE	X	X	X	X
CONCRETE WASHOUT AREA		X		

** SIGNIFIES BMP THAT WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY.

PRELIMINARY
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 CONSTRUCTION

Well-crafted simplicity.

PETERKORT
 TOWNE SQUARE
 STARBUCKS

Revisions

PK21052
 Original Issue: 06.21.2023
 Drawn/Check By: BLU/EME

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PROPOSED PHASE
 2 CLEARING AND
 DEMOLITION
 EROSION CONTROL
 PLAN

C6.1
 DESIGN REVIEW

PRE-CONSTRUCTION, CLEARING AND DEMOLITION NOTES:

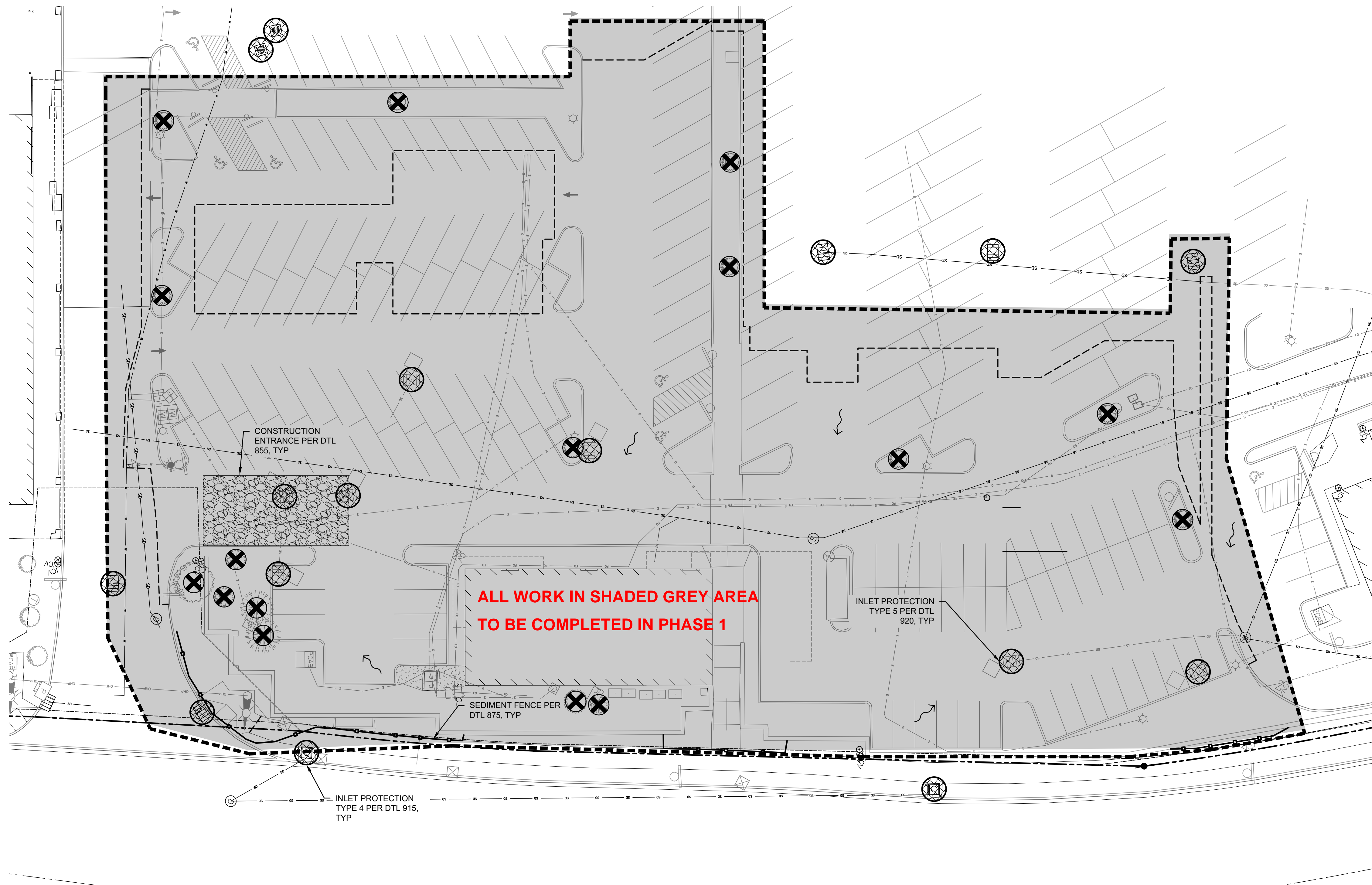
- ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
- SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: STRAW WATTLES AND BIO BAGS.

SHEET NOTES

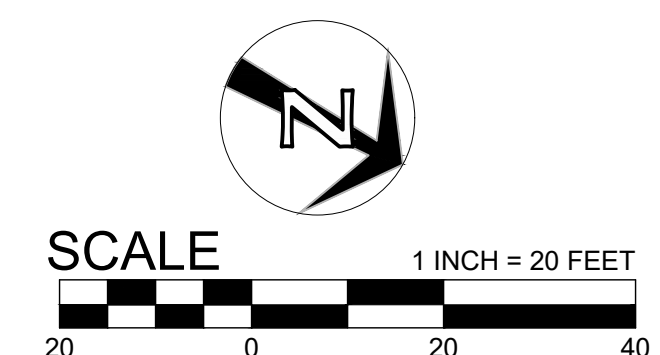
- PROVIDE COMBINATION INLET PROTECTION AND BIOBAGS AT ALL CATCH BASINS AND STORM INLETS ONSITE.
- PROVIDE INLET PROTECTION FILTER SACK ONLY AT ALL OFFSITE CATCH BASINS.

SHEET LEGEND

- PROPERTY LINE
- 49 ----- EX. CONTOUR MINOR
- 50 ----- EX. CONTOUR MAJOR
- EXTENT OF WORK
- SEDIMENT CONTROL FENCE. PLACE AT PROPERTY LINES, UNO (SHOWN OFFSET FOR CLARITY).
- ⊗ INLET PROTECTION
- ⊗ BIO-BAG PROTECTION IN DITCHES, SWALES, WETLANDS
- SURFACE FLOW DIRECTION
- DRAINAGE FLOW DIRECTION
- ⊗ CONSTRUCTION ENTRANCE
- ⊗ TREE TO BE REMOVED (UNDER SEPARATE DEMO PLAN)



PRE-DEVELOPED RUN-OFF IS COLLECTED IN A SERIES OF CATCH BASINS AND ROUTED OFFSITE INTO A PUBLIC STORMWATER SYSTEM. THE ENTIRE SITE IS TREATED IN A DOWNSTREAM SYSTEM.



GRADING, SITE AND UTILITY EROSION AND SEDIMENT CONSTRUCTION NOTES:

- SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
 - VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.
 - DWARF GRASS MIX (MIN. 100 LB./AC.)
 - DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
 - CREeping RED FESCUE (20% BY WEIGHT)
 - STANDARD HEIGHT GRASS MIX (MIN. 100LB./AC.)
 - ANNUAL RYEGRASS (40% BY WEIGHT)
 - TURF-TYPE FESCUE (60% BY WEIGHT)
- SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.
- LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.
- TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.
- STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
- EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.

7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.

8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

9. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.

10. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.

11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.

12. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.

13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.

14. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.

15. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.

EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

2. STOCK PILE AREAS MAY BE MOVED AS NECESSARY TO ALLOW FOR CONSTRUCTION ACTIVITIES.

3. THE STAGING, EQUIPMENT MAINTENANCE, FUELING, PORT-A-POTTY, AND SOLID WASTE AREA MAY BE MOVED AS NECESSARY TO ALLOW FOR CONSTRUCTION ACTIVITIES.

4. ALL "SEDIMENT BARRIERS (TO BE INSTALLED AFTER GRADING)" SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.

5. LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS.

6. THE STORM WATER FACILITY SHALL BE CONSTRUCTED AND LANDSCAPED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.

7. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

SHEET NOTES

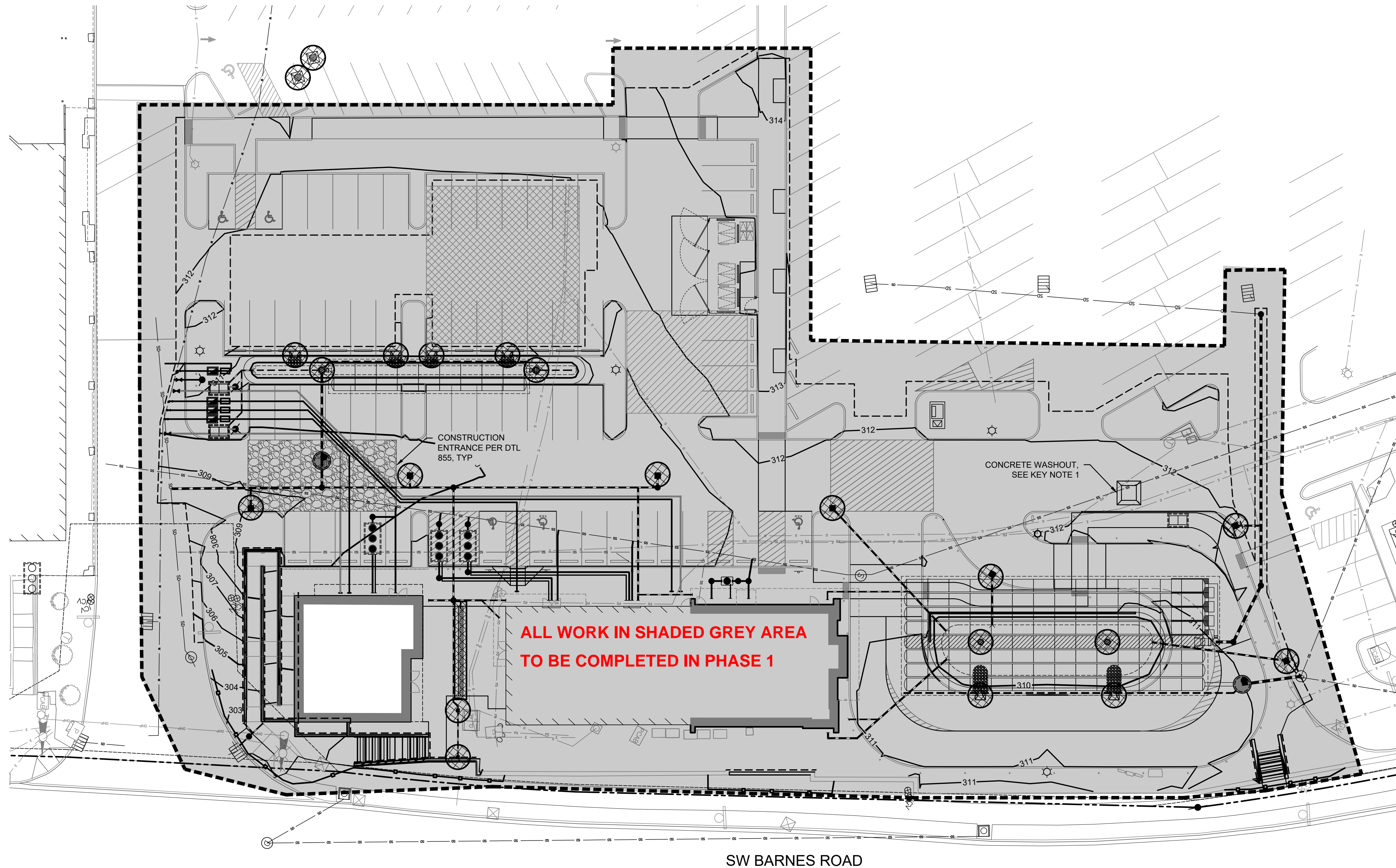
- CONTRACTOR SHALL PROVIDE A MINIMUM OF (1) 300 GALLON CAPACITY 7'x7'x14" PORTABLE CONCRETE WASHOUT "ECO-PAN", OR APPROVED EQUAL. CONTACT R.T. CULLER AT (503) 209-3204. CONCRETE WASHOUT TO BE PICKED UP BY ECO-PAN AND RECYCLED OFF SITE. ADJUST LOCATION AS REQUIRED.
- PROVIDE COMBINATION INLET PROTECTION AND BIOBAGS AT ALL CATCH BASINS AND STORM INLETS ONSITE.

KEY NOTES

- PROVIDE RIP-RAP PROTECTION AT OUTFALL
- PROVIDE AREA FOR TEMPORARY SOIL STOCK PILE FROM EARTHWORK CUTTINGS REMOVED FROM SITE.
- PROVIDE STAGING AREA FOR JOB TRAILERS, MATERIAL STAGING, AND PORTABLE RESTROOMS.

SHEET LEGEND

	PROPERTY LINE
	EX. CONTOUR MINOR
	EX. CONTOUR MAJOR
	PROP. CONTOUR MINOR
	PROP. CONTOUR MAJOR
	EXTENT OF WORK
	SEDIMENT CONTROL FENCE. PLACE AT PROPERTY LINES, UNLESS OTHERWISE NOTED (SHOWN OFFSET FOR CLARITY).
	INLET PROTECTION
	BIO-BAG PROTECTION IN DITCHES, SWALES, WETLANDS
	STAGING AREA
	SURFACE FLOW DIRECTION
	SOIL STOCKPILE AREA
	CONSTRUCTION ENTRANCE



POST-DEVELOPMENT STORMWATER RUNOFF FROM THE PROPOSED DEVELOPMENT AREA IS COLLECTED VIA CATCH BASINS AND ROUTED THROUGH A WATER QUALITY FACILITY, UNDERGROUND CHAMBER DETENTION FACILITY, AND DISCHARGED OFFSITE INTO A PUBLIC STORMWATER SYSTEM. THE ENTIRE SITE IS TREATED IN A DOWNSTREAM SYSTEM.

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 PROPOSED PHASE
 2 SITE AND UTILITY
 EROSION CONTROL
 PLAN

C6.2
 DESIGN REVIEW

PRELIMINARY
 NOT FOR
 CONSTRUCTION

Revisions

EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. STOCK PILE AREAS MAY BE MOVED AS NECESSARY TO ALLOW FOR CONSTRUCTION ACTIVITIES.
3. THE STAGING, EQUIPMENT MAINTENANCE, FUELING, PORT-A-POTTY, AND SOLID WASTE AREA MAY BE MOVED AS NECESSARY TO ALLOW FOR CONSTRUCTION ACTIVITIES.
4. ALL "SEDIMENT BARRIERS (TO BE INSTALLED AFTER GRADING)" SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.
5. LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS.
6. THE STORM WATER FACILITY SHALL BE CONSTRUCTED AND LANDSCAPED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.
7. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

SHEET NOTES

1. CONTRACTOR SHALL PROVIDE A MINIMUM OF (1) 300 GALLON CAPACITY 7'X7'X14" PORTABLE CONCRETE WASHOUT "ECO-PAN", OR APPROVED EQUAL. CONTACT R.T. CULLER AT (503) 209-3204. CONCRETE WASHOUT TO BE PICKED UP BY ECO-PAN AND RECYCLED OFF SITE. ADJUST LOCATION AS REQUIRED.
2. PROVIDE COMBINATION INLET PROTECTION AND BIOBAGS AT ALL CATCH BASINS AND STORM INLETS ONSITE.
3. VERTICAL CONSTRUCTION PHASE BASED ON COMPLETION OF SITE AND UTILITY PHASE.

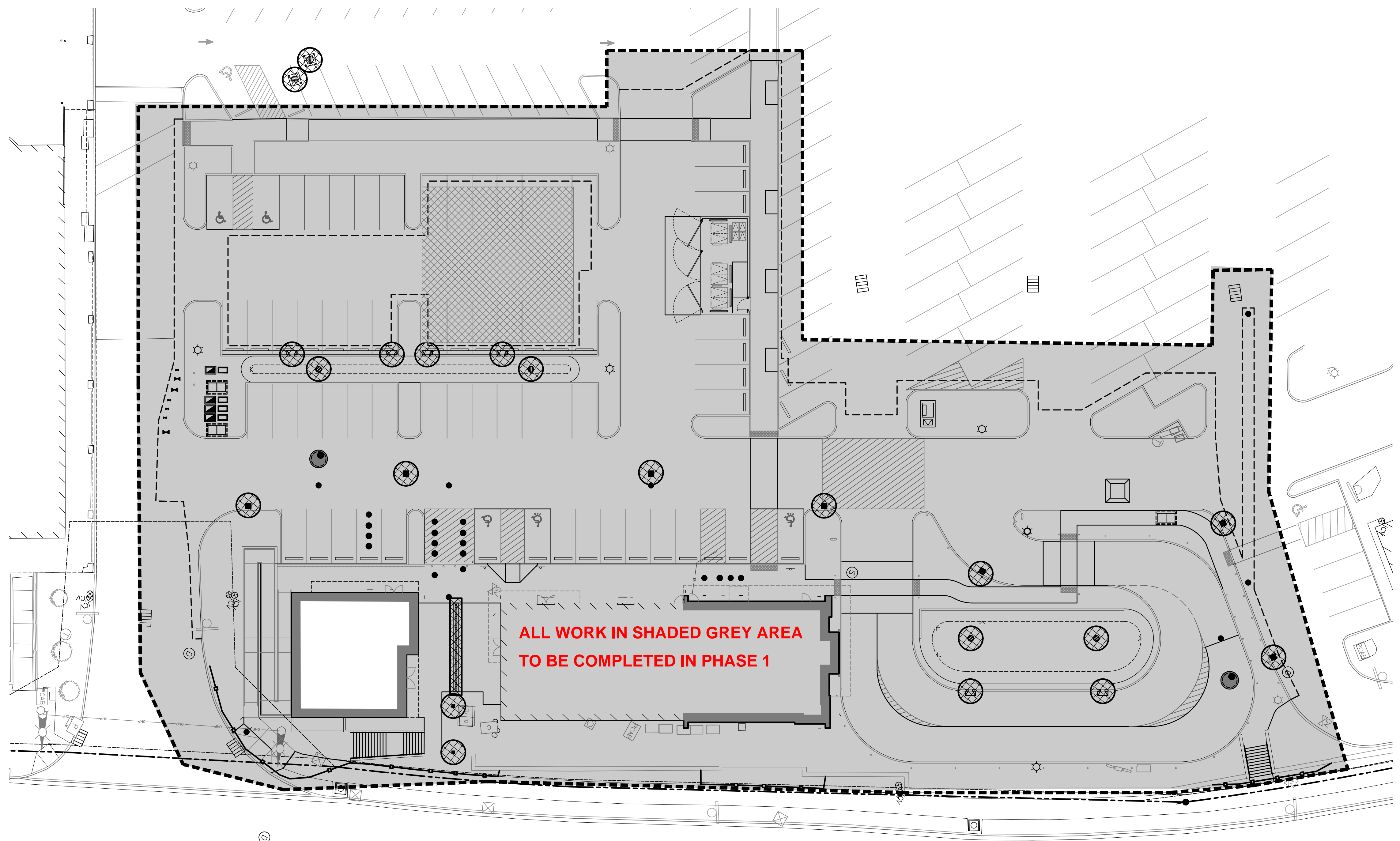
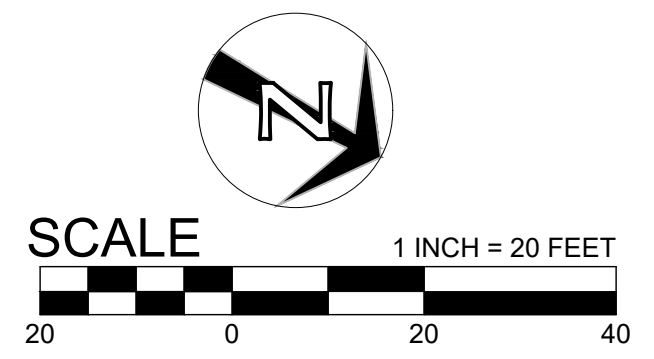
KEY NOTES

1. PROVIDE RIP-RAP PROTECTION AT OUTFALL
2. PROVIDE STAGING AREA FOR JOB TRAILERS, MATERIAL STAGING, AND PORTABLE RESTROOMS.

SHEET LEGEND

- PROPERTY LINE
- EXTENT OF WORK
- SEDIMENT CONTROL FENCE. PLACE AT PROPERTY LINES, UNO (SHOWN OFFSET FOR CLARITY).
- ⊗ INLET PROTECTION
- ⊕ BIO-BAG PROTECTION IN DITCHES, SWALES, WETLANDS
- ▨ STAGING AREA
- ➔ SURFACE FLOW DIRECTION
- CONCRETE WASHOUT

POST-DEVELOPMENT STORMWATER RUNOFF FROM THE PROPOSED DEVELOPMENT AREA IS COLLECTED VIA CATCH BASINS AND ROUTED THROUGH A WATER QUALITY FACILITY, UNDERGROUND CHAMBER DETENTION FACILITY, AND DISCHARGED OFFSITE INTO A PUBLIC STORMWATER SYSTEM. THE ENTIRE SITE IS TREATED IN A DOWNSTREAM SYSTEM.





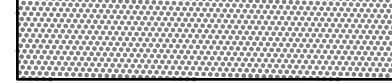
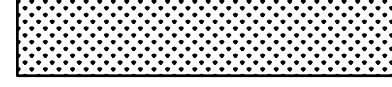



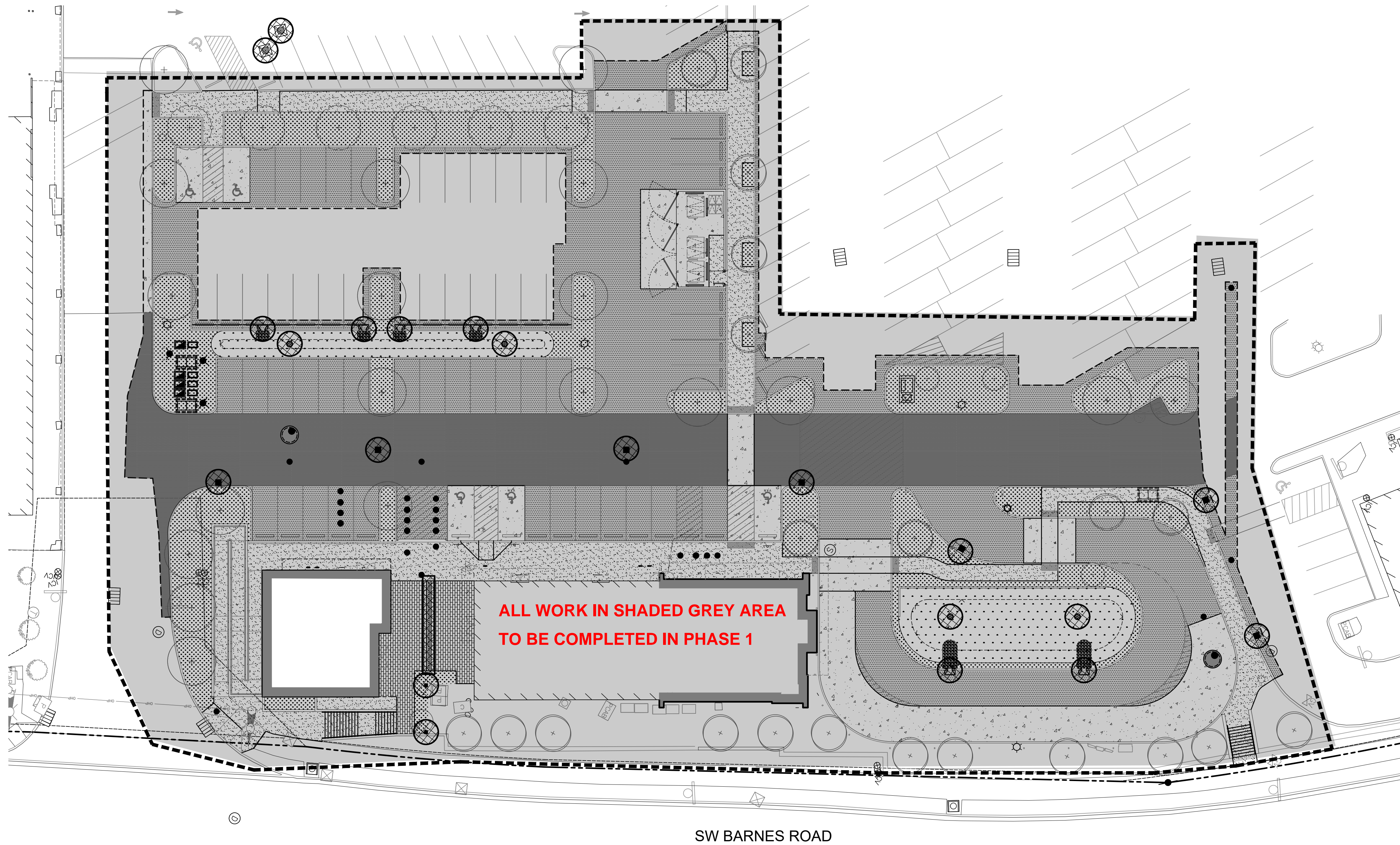
SW BARNES ROAD

SHEET NOTES

1. ALL EXPOSED SURFACES SHOULD BE PERMANENTLY STABILIZED PER LANDSCAPE PLANS. INCLUDES GROUND COVER, TREES, AND STANDARD SEEDING.
2. UPON COMPLETION OF PHASE ALL TEMPORARY EROSION CONTROL SHALL BE REMOVED. INCLUDES INLET PROTECTION AND SEDIMENT FENCE.

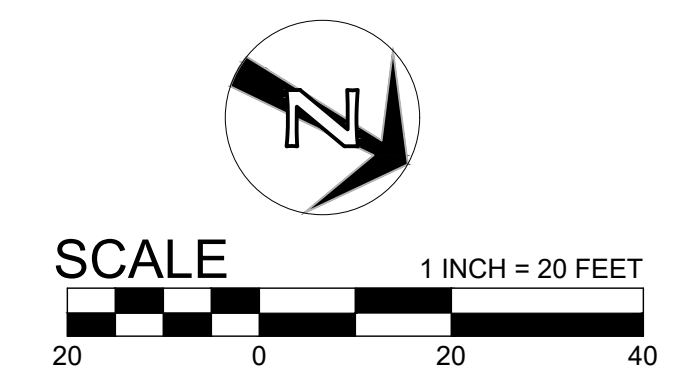
SHEET LEGEND

	PROPERTY LINE
	EXTENT OF WORK
	CONCRETE SIDEWALK
	HEAVY CONCRETE PAVEMENT
	STANDARD ASPHALT PAVEMENT
	LANDSCAPING
	RAIN GARDEN



**ALL WORK IN SHADED GREY AREA
 TO BE COMPLETED IN PHASE 1**

POST-DEVELOPMENT STORMWATER RUNOFF FROM THE PROPOSED DEVELOPMENT AREA IS COLLECTED VIA CATCH BASINS AND ROUTED THROUGH A WATER QUALITY FACILITY, UNDERGROUND CHAMBER DETENTION FACILITY, AND DISCHARGED OFFSITE INTO A PUBLIC STORMWATER SYSTEM. THE ENTIRE SITE IS TREATED IN A DOWNSTREAM SYSTEM.



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Revisions

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PROPOSED PHASE
 2 FINAL
 STABILIZATION
 PLAN

C6.4
 DESIGN REVIEW

GENERAL EROSION CONTROL NOTES:

1. COMPLY WITH ALL APPLICABLE PROVISIONS IN CHAPTER 6 OF THE DESIGN AND CONSTRUCTION STANDARDS (CURRENT); R&O 19-5 AS AMENDED BY R&O 19-22, ADOPTED NOVEMBER 12, 2019.
2. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP LIKE A FILTER BAG.
3. ALL EXPOSED SOILS MUST BE COVERED DURING WET WEATHER PERIOD, OCTOBER 1, - MAY 31.
4. HOLD A PRECONSTRUCTION MEETING WITH PROJECT CONSTRUCTION PERSONAL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.

PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:

1. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, STRAW WATTLES OR OTHER APPROVED MATERIALS.
2. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL AND APPROVED IN AN INITIAL INSPECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
3. RUN-ON AND RUN-OFF SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.

GRADING, STREET AND UTILITY EROSION AND SEDIMENT CONSTRUCTION NOTES:

1. IF VEGETATED SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1ST. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX IN THOSE AREAS. SEED USED FOR TEMPORARY OR PERMANENT SEEDING OUTSIDE VEGETATED CORRIDORS SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:

A. DWARF GRASS MIX (MIN. 100 LB./AC.)	B. STANDARD HEIGHT GRASS MIX (MIN. 100LB.AC)
1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)	1. ANNUAL RYEGRASS (40% BY WEIGHT)
2. CREEPING RED FESCUE (20% BY WEIGHT)	2. TURF-TYPE FESCUE (60% BY WEIGHT)
2. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.
3. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.
4. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.
5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS, STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.
8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
9. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.
10. COVER CATCH BASINS, MANHOLES AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACT COAT ETC. TO PREVENT PRODUCTS FROM ENTERING THE STORM SYSTEM.

EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL SEDIMENT BARRIERS TO BE INSTALLED AFTER GRADING SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.
2. LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS BY OCTOBER 1.
3. THE STORM WATER FACILITY SHALL BE CONSTRUCTED AND LANDSCAPED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.
4. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

STANDARD EROSION CONTROL NOTES FOR SITES 1 ACRE AND GREATER

DRAWING NO. 946 REVISED 6-30-21

INLET PROTECTION TYPE 4

DRAWING NO. 915 REVISED 10-31-19

SEDIMENT FENCE

DRAWING NO. 875 REVISED 10-31-19

CHECK DAM BIO-FILTER BAG

DRAWING NO. 845 REVISED 10-31-19

NOTES:

1. WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEDBOARD OF 12 INCHES.
2. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
3. IF THE WASHOUT IS NEARING CAPACITY, VACUUM AND DISPOSE OF THE WASTE MATERIAL IN AN APPROVED MANNER.
4. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FT FROM SENSITIVE AREAS INCLUDING OPEN DRAINAGE FACILITIES AND WATER SOURCES.
5. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
6. INSTALL CONCRETE WASHOUT SIGN WITHIN 30 FEET OF TEMPORARY CONCRETE WASHOUT FACILITY.
7. TEMPORARY CONCRETE WASHOUTS MAY BE A PREFABRICATED CONTAINER THAT IS PORTABLE AND REUSABLE.

CONCRETE WASHOUT

DRAWING NO. 900 REVISED 10-31-19

INLET PROTECTION TYPE 5

DRAWING NO. 920 REVISED 10-31-19

SIDEWALK SUBGRADE

DRAWING NO. 895 REVISED 10-31-19

CONSTRUCTION ENTRANCE

DRAWING NO. 855 REVISED 10-31-19