

SITE CONSTRUCTION PLANS FOR:
AVISTA METRO SUBSTATION
IMPROVEMENTS

222 SOUTH WALL
SPOKANE, WASHINGTON 99201
SW 1/4 OF SEC. 9, T.25N., R.43E., W.M., SPOKANE COUNTY, WA

SCHEDULE OF DRAWINGS

SHEET NO.	DESCRIPTION
C0.1	CIVIL COVER/VICINITY MAP
C0.5	TEMP. EROSION/SEDIMENT CONTROL PLAN
C1.0	SITE SURFACING/HORIZ. CONTROL PLAN
C2.0	GRADING AND DRAINAGE PLAN
C4.0	CIVIL SITE DETAILS
C4.1	GRADING/DRAINAGE DETAILS
L1.0	LANDSCAPE PLANTING PLAN
L2.0	LANDSCAPE IRRIGATION PLAN

GENERAL NOTES:

- ALL MATERIALS, WORKMANSHIP, TESTING AND CONSTRUCTION SHALL BE COMPLETED IN CONFORMANCE WITH THE 2021 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE & MUNICIPAL CONSTRUCTION, THE CITY OF SPOKANE STANDARDS, AND THE CITY OF SPOKANE GENERAL SPECIAL PROVISIONS FOR PRIVATE CONTRACTS.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
- ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
- ALL MATERIAL FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES OR AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE.
- CONTRACTORS MUST FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE REQUIREMENTS OF ITEM #4 AT THE REQUEST OF THE AGENCY AND/OR THE ENGINEER.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AS REQUIRED BY THE CITY OF SPOKANE AND THE STATE OF WASHINGTON.
- THE CONTRACTOR SHALL TAKE CAUTION TO PREVENT SOIL AND DEBRIS FROM BEING TRACKED ONTO CITY STREETS. IF SOIL AND/OR DEBRIS IS TRACKED ONTO THE CITY STREETS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SAID SOIL AND/OR DEBRIS AT THE END OF EACH WORKING DAY.
- CONTRACTOR TO COORDINATE AND PROVIDE FOR INSTALLATION AND/OR RELOCATION OF DRY UTILITIES AS NECESSARY TO ELIMINATE CONFLICTS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE A COMPREHENSIVE TRAFFIC CONTROL PLAN (INCLUDING SIDEWALK ACCESS PLANS) WHICH SHALL BE SUBMITTED TO AND APPROVED BY THE CITY OF SPOKANE ENGINEERING DEPARTMENT PRIOR TO ANY WORK IN THE PUBLIC R.O.W.. CONTRACTOR IS RESPONSIBLE FOR SAFETY TO THE PUBLIC BY MINIMIZING THE INTERRUPTION OF USE OF ROADS AND PROVIDING SIGNS, FLARES, BARRICADES, ETC. AS NECESSARY.
- CONTRACTOR SHALL COORDINATE WORK COMPLETED BY THE OWNER AND ALSO WORK COMPLETED "BY OTHERS".
- THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. CONTRACTOR SHALL ALSO MAINTAIN ON THE SITE A COMPLETE SET OF RED LINE RECORD DRAWINGS INDICATING ALL CHANGES FROM THE APPROVED DRAWINGS INCLUDING STRUCTURE LOCATION PIPE MATERIAL AND INVERT ELEVATIONS.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ADJACENT EXISTING PROPERTIES OR IMPROVEMENTS. CONTRACTOR IS RESPONSIBLE FOR CLEAN-UP OF ANY AREAS DISTURBED BY HIS ACTIVITIES.
- THE CONTRACTOR SHALL MEET CURRENT BACKFLOW STANDARDS PER WAC 246-290-490 AND FOLLOW CITY OF SPOKANE WATER DEPARTMENT RULES AND REGULATIONS FOR ALL WATER SERVICE INSTALLATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR REMAINING DEMOLITION WORK, AS NECESSARY, TO COMPLETE THE PROJECT. THE CONTRACTOR SHALL REVIEW THE PROJECT LIMITS FOR QUANTITY AND TYPE OF STRUCTURES, GROUND COVER AND DEBRIS AT THE TIME OF BIDDING AND SHALL INCORPORATE REMOVALS / DISPOSAL IN THEIR BID. ALL EXISTING UTILITIES ON SITE (INSIDE PROPERTY LINE) ARE ASSUMED TO BE REMOVED OUT TO PROPERTY LINE. CONTRACTOR SHALL VERIFY ACTUAL LIMITS OF REMOVAL WITH AVISTA.

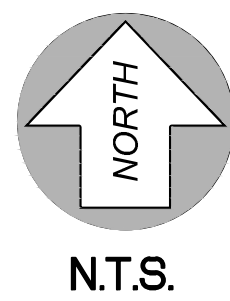
SURVEY CONTROL POINTS

HORIZONTAL DATUM: NAD 1983(XX)
VERTICAL DATUM: NAVD 88

TBM#1001	MAG NAIL LOCATED APPROX. 62.4' WESTERLY OF NORTHWEST PROPERTY CORNER. N 257,158.57 E 2,480,514.22 EL 1906.44
TBM#1002	MAG NAIL LOCATED APPROX. 4.0' NORTHEAST OF NORTHEAST PROPERTY CORNER. N 257,176.83 E 2,480,860.37 EL 1906.90
TBM#2011	MAG NAIL LOCATED APPROX. 100.7' SOUTHEAST OF SOUTHEAST PROPERTY CORNER. N 256,952.65 E 2,480,924.17 EL 1911.61
TBM#2113	REBAR WITHOUT CAP LOCATED APPROX. 75.9' NORTHWESTERLY OF NORTHWEST PROPERTY CORNER. N 257,172.74 E 2,480,501.63 EL 1907.54
TBM#2118	REBAR WITH CAP LOCATED APPROX. 83.9' SOUTHWEST OF SOUTHWEST PROPERTY CORNER. N 256,941.83 E 2,480,550.52 EL 1907.84



VICINITY MAP



ABBREVIATIONS	
ABDN	ABANDONED
ARCH	ARCHITECT / ARCHITECTURAL
B.E.	BURIED ELECTRIC
BOTT.	BOTTOM
B.T.	BURIED TELEPHONE
C.B.	CATCH BASIN
C.I.	CURB INLET
CL.	CLASS
CO.	CITY OF SPOKANE
COS	CRUSHED SURFACING BASE COARSE
CSBC	CRUSHED SURFACING TOP COARSE
CSTC	DOUBLE DETECTOR CHECK VALVE
DDCV	DRYWELL
DW	EAST
E	ELEVATION
EL	FACE OF CURB
FC	FINISH GRADE
FG	FIRE HYDRANT
F.H.	FINISH
FIN.	GRADE
G	GRADE BREAK
G.B.	GUTTER
GT	HIGH POINT
H.P.	INVERT ELEVATION
I.E.	LENGTH
L	LANDSCAPE
LS	MAXIMUM DRY DENSITY
MDD	MAXIMUM DRY UNIT WEIGHT
MDUW	NORTH
N	NOT IN CONTRACT
N.I.C.	POINT OF BEGINNING
P.O.B.	PROPERTY LINE
PL	PLAN AND PROFILE
P AND P	RIGHT-OF-WAY
R.O.W.	SOUTH
S	SWALE BOTTOM ELEVATION
SBEL	SWALE BOTTOM WIDTH
SBW	SUBGRADE
SG	STORM
ST	STANDARD
STD.	STRUCTURAL
STRUCT	SIDEWALK
SW	TOP OF CURB
TC	TOP OF GRATE
T.G.	TOP OF WALL
TW	TYPICAL
TYP.	WEST
W	WASHINGTON STATE DEPARTMENT
W.S.D.O.T.	OF TRANSPORTATION
APWA	AMERICAN PUBLIC WORKS ASSOCIATION

DESIGN ACCEPTANCE IS SUBJECT TO THE FOLLOWING CONDITIONS:

- THIS ACCEPTANCE IS FOR DESIGN ONLY. ACCEPTANCE IS BASED ON COMPLIANCE WITH THE PERMIT CONSTRUCTION PLANS STAMPED BY PLANNING AND DEVELOPMENT AS NOTED. CHANGES IN DESIGN FOR CONSTRUCTION ARE ONLY ACCEPTED WITH WRITTEN APPROVAL BY THIS OFFICE.
- IN PROVIDING THIS ACCEPTANCE OF PLANS, THE CITY OF SPOKANE STATES ITS' BELIEF THAT THE PLANS CONFORM TO REGULATORY REQUIREMENTS AS NOTED ABOVE. SUCH ACCEPTANCE IS NOT A GUARANTEE OR WARRANTY OF DESIGN SUFFICIENCY FOR ANY PURPOSE OR PROMISE OF CUSTOMER SATISFACTION. THE OWNER AND ENGINEER REMAIN SOLELY RESPONSIBLE FOR DESIGN AND EXECUTION OF THE PROJECT.
- THE CITY'S ACCEPTANCE OF THIS SUBMITTAL DOES NOT RELIEVE THE OWNER OR HIS/HER AGENTS FROM ANY LIABILITY RELATED TO PORTIONS OF THE DESIGN THAT ARE NOT IN CONFORMANCE WITH THE STANDARDS, OR WHICH DO NOT FOLLOW GOOD ENGINEERING PRACTICE. ACTIONS OR CLAIMS ARISING FROM PLANNING, SURVEYING, ENGINEERING, DESIGN, CONSTRUCTION, ALTERATION, REPAIR, ETC., OF IMPROVEMENTS UPON REAL PROPERTY WILL ADHERE TO THE REQUIREMENTS AS NOTED IN RCW 4.16.310.

OWNER: AVISTA CORP.
EAST 1411 MISSION AVE.
SPOKANE, WA 99220
CONTACT: AARON HENSON
PHONE: (509) 495-4550
EMAIL: Aaron.Henson@avistacorp.com

PARCEL I.D. NO:
35192.2207, .2206, .2205

SITE ADDRESS:
222 S. WALL STREET
SPOKANE, WA 99201

CIVIL ENGINEER: PARAMETRIX
106 W. MISSION AVE.
SPOKANE, WA 99201
CONTACT: SCOTT BUSCH
PHONE: 509-328-3371

LEGEND		
EXISTING	DESC.	PROPOSED
	CONIFER TREE	
	DECIDUOUS TREE	
	STORM MANHOLE	
	DRYWELL	
	CATCH BASIN	
	CLEANOUT	
	CURB INLET	
	SEWER MANHOLE	
	SIGN	
	POWER POLE	
	BOLLARD	
	WATER VALVE	
	FIRE HYDRANT	
	WATER METER	
	JUNCTION BOX	
	LIGHTS	
	PARKING METER	
	CURB	
	CURB & GUTTER	
	ASPHALT LINE	
	CONCRETE LINE	
	SEWER LINE	
	WATER LINE	
	WATER LINE (IRRIGATION)	
	PIPE CASING	
	STORM LINE	
	OVERHEAD POWER LINE	
	BURIED TEL/FIBER OPTIC	
	BURIED CABLE	
	GAS	
	MINOR CONTOUR	
	MAJOR CONTOUR	
	SWALE CONTOUR	
	FENCE	
	RIGHT-OF-WAY LINE	
	BOUNDARY	
	LOT LINE	
	CENTER LINE	
	ASPHALT	
	GRAVEL SECTION (PER AVISTA STD.)	
	GRAVEL SECTION (INFILTRATIVE)	
	CONCRETE	
	SWALE BOTTOM	
	BUILDING	
	SPOT EL. ASPH/GUT	
	SPOT EL.(INTERPOLATED)	
	SOIL BORING	

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. PARAMETRIX MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

Revisions:

SCOTT M. BUSCH
27923
REGISTERED
PROFESSIONAL ENGINEER
9-28-21

CIVIL COVER/VICINITY MAP

PERMIT REVIEW DRAWING (9-28-21)

METRO SUBSTATION ENCLOSURE
AVISTA CORPORATION
222 SOUTH WALL
SPOKANE, WA 99201

AVISTA Corp.

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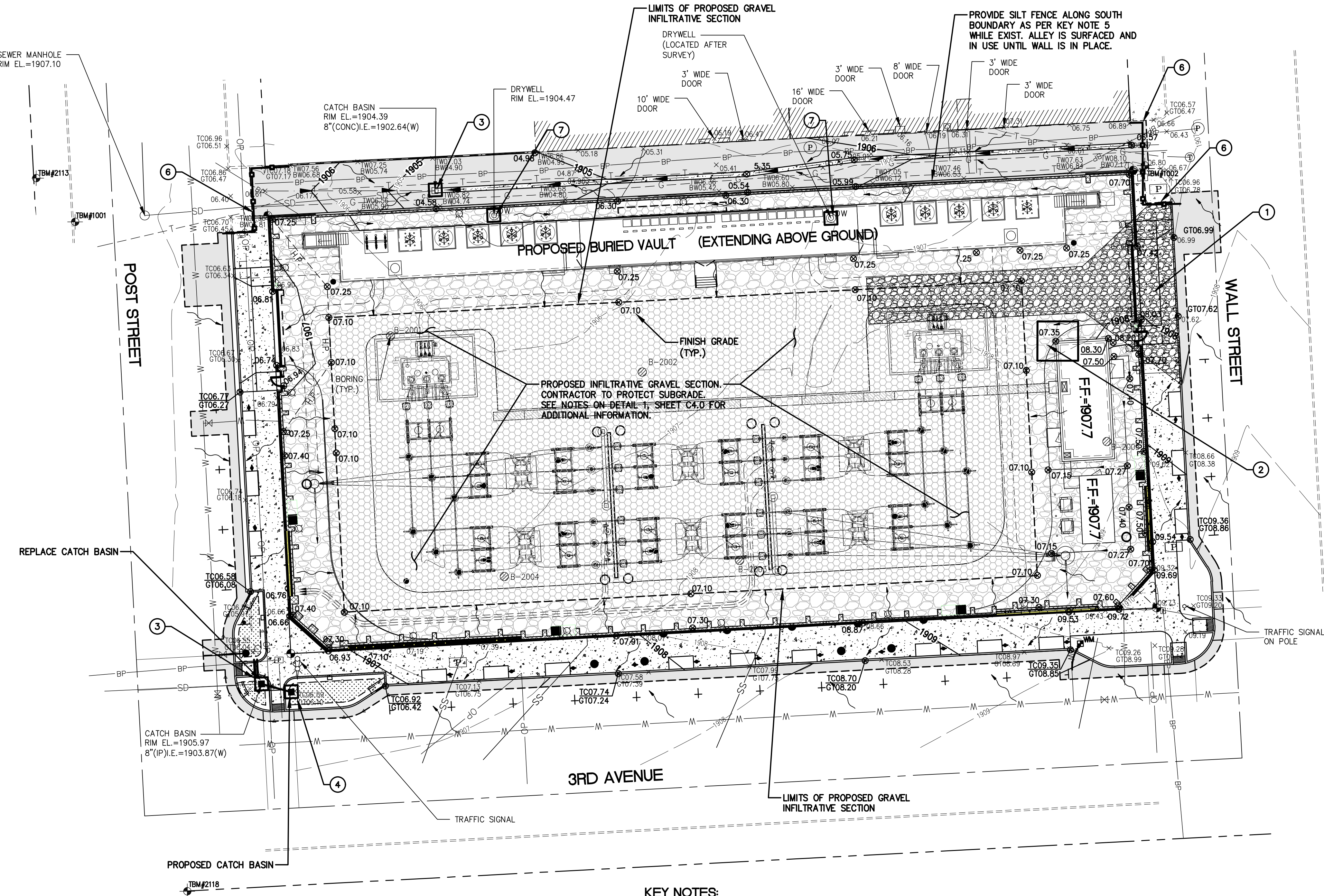
Project No.: 20.134
Date: 9.28.21
Drawn By: S.M.B.
Checked By: M.J.L.

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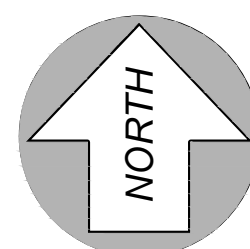
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KEY NOTES:

1. INSTALL CONSTRUCTION ENTRANCE PER WSDOT STANDARD PLAN 1-80.10-01 (LOCATION SUBJECT TO CHANGE)
2. POSTED CONCRETE WASHOUT SEE NOTE 23. (LOCATION SUBJECT TO CHANGE)
3. INSTALL INLET PROTECTION (PAVED) PER WSDOT STANDARD PLAN 1-40.20-00
4. INSTALL INLET PROTECTION (UNPAVED) PER WSDOT STANDARD PLAN 1-40.10-00
5. INSTALL SILT FENCE PER WSDOT STANDARD PLAN 1-30.10-02
6. INSTALL SILT FENCE AS PER WSDOT STANDARD PLAN 1-30.10-01 OR WATTLES AS PER NOTE 21 ALONG THE ASPHALT EDGE, BASED ON CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION.
7. INSTALL INLET PROTECTION (PAVED) PER WSDOT STANDARD PLAN 1-40.20-00 IN EXISTING INLETS UNTIL INLETS ARE REMOVED.



EROSION CONTROL NOTES:

1. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
 - (A) CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY ESC BMPs;
 - (B) INSTALL TEMPORARY ESC BMPs, CONSTRUCTING SEDIMENT TRAPPING BMPs AS ONE OF THE FIRST STEPS PRIOR TO GRADING;
 - (C) CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS;
 - (D) STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION ENTRY BMP;
 - (E) CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUP OF LOTS;
 - (F) TEMPORARY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPs. LOTS OR GROUPS OF LOTS IN SITUATIONS WHERE SUBSTANTIAL CUT OF FILL SLOPES ARE A RESULT OF THE SITE GRADING;
 - (G) CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.);
 - (H) PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPs;
 - (I) INSTALL PERMANENT ESC CONTROLS, WHEN APPLICABLE; AND,
 - (J) REMOVE TEMPORARY ESC CONTROLS WHEN:
 - PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED; AND
 - ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION PROBLEMS HAVE CEASED; AND,
 - HARDSCAPE ELEMENTS HAVE BEEN INSTALLED SUCH AS ASPHALT, CONCRETE, BUILDINGS, AND,
 - VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED ESC PLAN ON FILE WITH THE LOCAL JURISDICTION.
2. INSPECT ALL ROADWAYS AND ASPHALT SURFACES, AT THE END OF EACH DAY, ADJACENT TO THE CONSTRUCTION ACCESS ROUTE. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED ON ADJACENT ASPHALT SURFACES, OFF SITE AND/OR BEYOND THE ROADWAY APPROACH, CLEANING IS REQUIRED. CONTRACTOR TO INSTALL STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD. PLAN 1-80.10-02 AND/OR MAINTAIN/CLEAN EXISTING CONSTRUCTION ENTRANCE IF SEDIMENT IS CONTINUALLY TRACKED OFF SITE.
3. IF SEDIMENT REMOVAL IS NECESSARY PRIOR TO STREET WASHING, IT SHALL BE REMOVED BY SHOVELING OR PICKUP SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
4. IF STREET WASHING IS REQUIRED TO CLEAN SEDIMENT TRACKED OFF SITE, ONCE SEDIMENT HAS BEEN REMOVED, STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON-SITE OR OTHERWISE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.
5. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
6. NOT USED.
7. INSPECT SEDIMENT CONTROL BMPs WEEKLY AT A MINIMUM, DAILY DURING A STORM EVENT, AND AFTER ANY DISCHARGE FROM THE SITE (STORMWATER OR NON-STORMWATER). THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE SITE IS STABILIZED AND INACTIVE.
8. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA.
9. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT, WITHIN 10 DAYS DURING THE REGIONAL DRY SEASON (JULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30). SOILS MUST BE STABILIZED AT THE END OF A SHIFT BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THIS TIME LIMIT MAY ONLY BE ADJUSTED BY A LOCAL JURISDICTION WITH A "QUALIFIED LOCAL PROGRAM", IF IT CAN BE DEMONSTRATED THAT THE RECENT PRECIPITATION JUSTIFIES A DIFFERENT STANDARD AND MEETS THE REQUIREMENTS SET FORTH IN THE CONSTRUCTION STORMWATER GENERAL PERMIT.
10. PROTECT INLETS, DRYWELLS, CATCH BASINS, AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE. INSTALL INLET PROTECTION AS PER WSDOT STD. PLAN 1-40.10-00 (FOR UNPAVED AREAS) OR WSDOT STD. PLAN 1-40.20-00 (FOR PAVED AREAS).
11. KEEP ROADS ADJACENT TO THE INLETS CLEAN.
12. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS.
13. CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHALL BE OPERATIONAL BEFORE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF EXCESS STORMWATER ON SITE UNTIL INFILTRATIVE GRAVEL SECTION CAN BE CONSTRUCTED WITHOUT POSSIBILITY OF BEING NEGATIVELY IMPACTED.
14. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ON SITE, KEEPING OFF OF ROADWAYS AND SIDEWALKS.
15. COVER, CONTAIN AND PROTECT ALL CHEMICAL, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTES PRESENT ON SITE FROM VANDALISM (SEE CHAPTER 173-304 WAC FOR THE DEFINITION OF INERT WASTE), USE SECONDARY CONTAINMENT FOR ON-SITE FUELING TANKS.
16. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM REPAIRS, SOLVENT AND DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. IF RAINING OVER EQUIPMENT OR VEHICLE, PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE VEHICLE.
17. CONDUCT APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZER AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. AMEND MANUFACTURER'S RECOMMENDED APPLICATION RATES AND PROCEDURES TO MEET THIS REQUIREMENT, IF NECESSARY.
18. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPs TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPs. NOTE THAT INLET PROTECTION DEVICES SHALL BE CLEANED OR REMOVED AND REPLACED BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE.
19. REMOVE TEMPORARY ESC BMPs WITHIN 30 DAYS AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREAS THAT ARE DISTURBED DURING THE REMOVAL PROCESS.
20. UPON COMPLETION OF GROUND DISTURBING ACTIVITY AND STABILIZATION OF AREAS CONTRIBUTING TO THE RESPECTIVE PERMANENT STORMWATER SWALES/PONDS, CONTRACTOR SHALL REMOVE ACCUMULATED SILT AND SEDIMENT FROM THE PERMANENT SWALES/PONDS. REPAIR AND REGRADE AS NECESSARY TO MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
21. INSTALL WATTLES ON EXIST. PAVEMENT ON DOWNSTREAM SIDE OF EXPOSED AREAS (TYPICAL). SECURE WITH CMU BLOCKS OR OTHER WEIGHTS TO PREVENT MOVEMENT, AND MARK WITH TRAFFIC CONES.
22. CONTRACTOR IS RESPONSIBLE TO MAINTAIN A COPY OF THE CURRENT TESC PLAN ON SITE. THE CONTRACTOR SHALL ALSO UPDATE THE PLAN, WITH RED-LINED MARK-UP, ANY REVISIONS, ADDITIONS OR ADJUSTMENT TO THE BMPs TO MAINTAIN THE PLAN INTENT AND REQUIREMENTS.
23. CONTRACTOR TO PROVIDE A DESIGNATED, POSTED CONCRETE WASHOUT AREA. THE CONCRETE WASHOUT SHALL NOT BE ALLOWED TO DRAIN OFF THE SITE OR INTO ANY EXISTING OR FUTURE STORM DRAINAGE FACILITIES. WASHOUT SHALL, AS A MINIMUM, BE INSTALLED WITH A BERM TO ISOLATE AND CONTAIN THE CONCRETE WASTE. HARDENED WASH CONCRETE SHALL BE BROKEN UP AND REMOVED FROM SITE. A PORTABLE CONCRETE WASHOUT IS REQUIRED WHEN BUILDING CONSTRUCTION IS INITIATED.
24. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS SET FORTH BY THE DEPARTMENT OF ECOLOGY'S CONSTRUCTION STORMWATER GENERAL PERMIT AS OBTAINED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESSL) TO MONITOR EROSION CONTROL FACILITIES AND MONITOR SITE DISCHARGES IN ACCORDANCE WITH WSDOE REQUIREMENTS. THE CONTRACTOR SHALL PREPARE/PROVIDE AND MAINTAIN A COPY OF THE STORMWATER POLLUTION



TEMP. EROSION / SEDIMENT CONTROL PLAN

PERMIT REVIEW DRAWING (9-28-21)

METRO SUBSTATION ENCLOSURE

AVISTA CORPORATION

222 SOUTH WALL

SPOKANE, WA 99201



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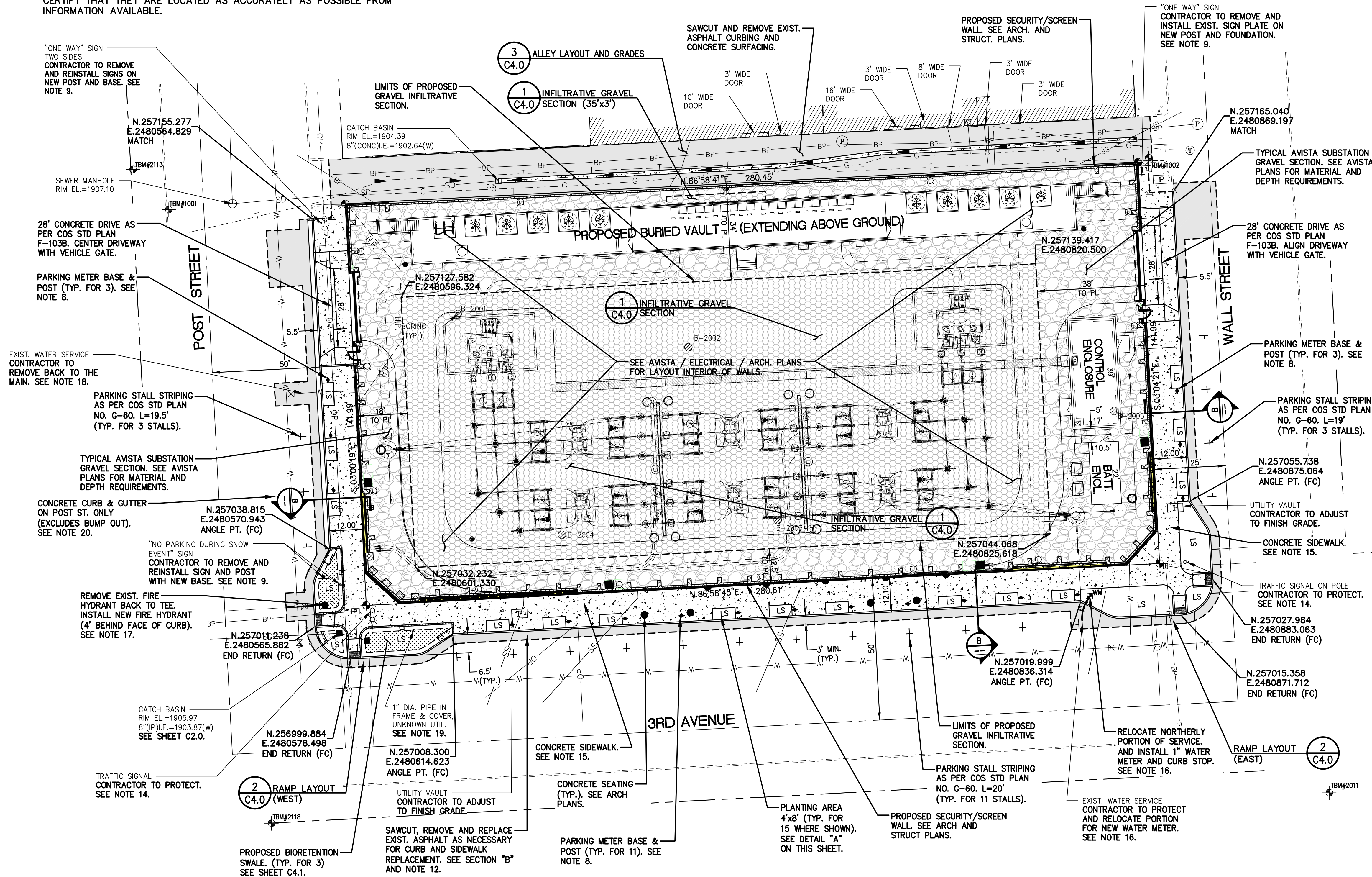
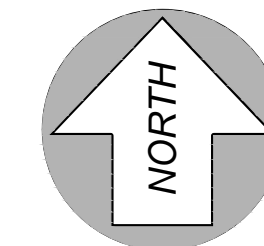
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Checked By:	M.J.L.

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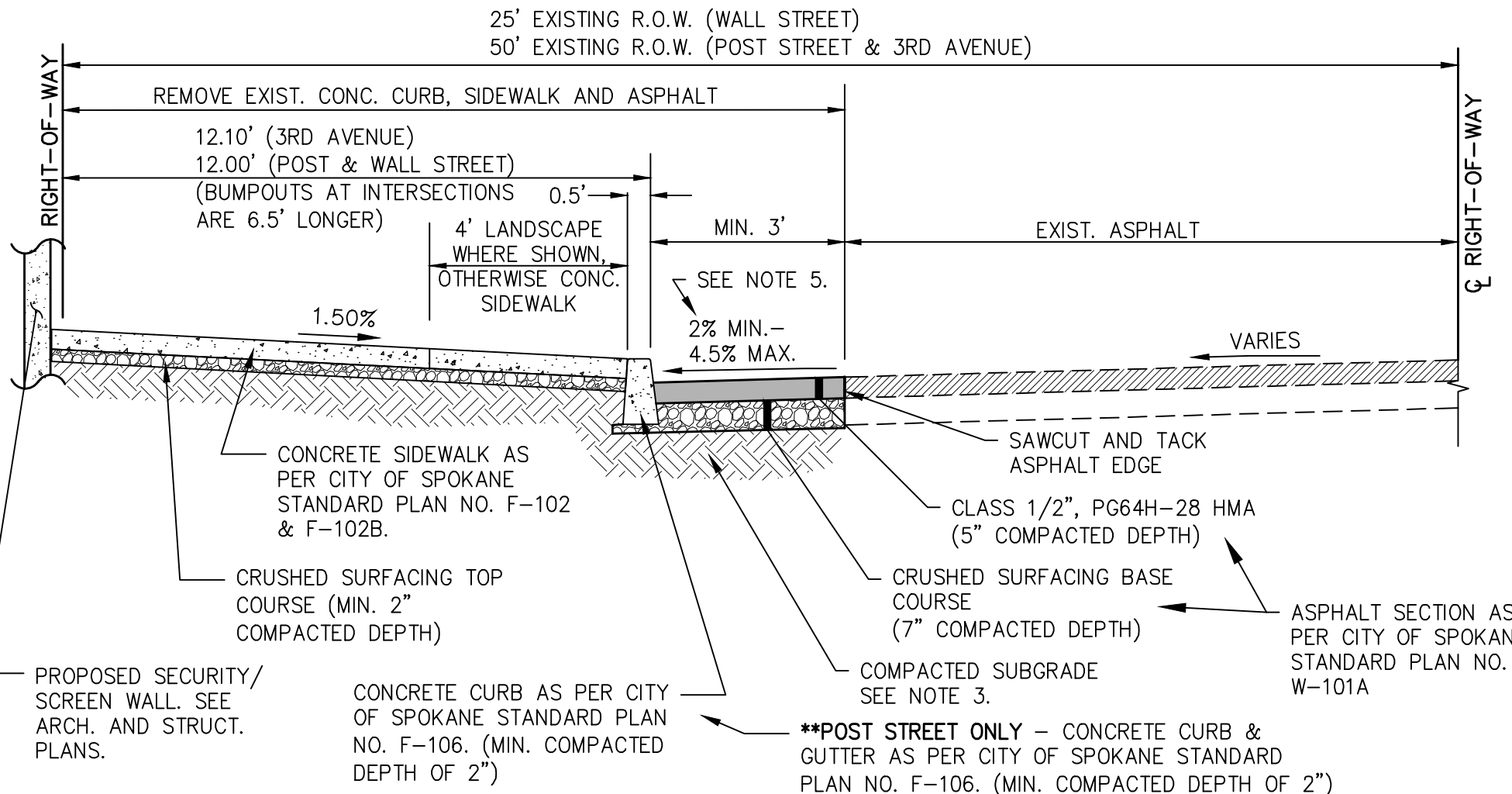
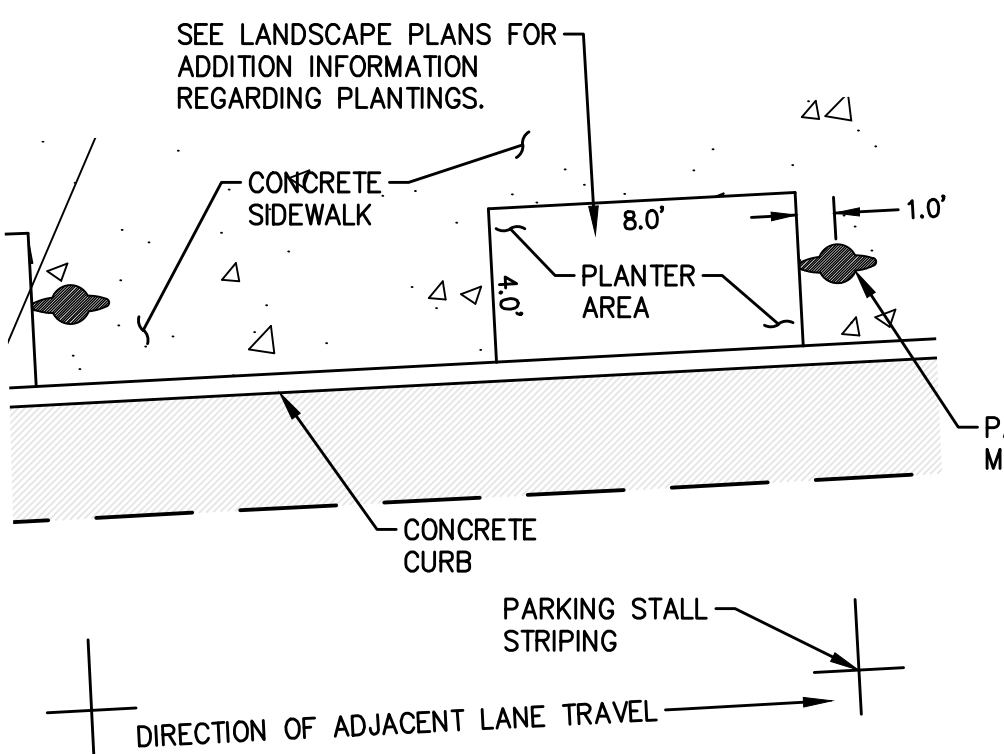
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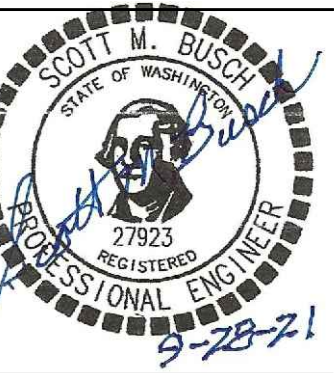
- ALL GRADING, ROCKING AND PAVING SHALL CONFORM TO THE 2021 WSDOT STANDARD SPECIFICATIONS.
 - HOT MIX ASPHALT (HMA) - SECTIONS 5-04 HOT MIX ASPHALT, 9-03.8(6) AGGREGATES FOR HOT MIX ASPHALT.
 - CRUSHED SURFACING BASE COURSE (CSBC) - SECTION 9-03.9(3) CRUSHED SURFACING.
- HOT MIX ASPHALT SHALL BE WSDOT HMA CLASS 1/2" PG64H-28 COMPACTED TO MIN. 92% OF RICE DENSITY AS DEFINED IN SECTION 5-04.3(10) OF THE 2021 WSDOT STANDARD SPECIFICATIONS. HMA SHALL BE A CITY OF SPOKANE APPROVED MIX.
- COMPACT NATIVE SUBGRADE, STRUCTURAL FILL CSTC/CSBC TO A MINIMUM 95% MAXIMUM DRY DENSITY AS PER ASTM D1557.
- ALL MATERIALS SHALL BE FROM A WSDOT APPROVED AGGREGATE SOURCE AND/OR WSDOT QUALIFIED PRODUCTS LIST.
- CONTRACTOR SHALL VERIFY ROAD CROSS SLOPES CONFORMS TO ACCEPTABLE SLOPES SHOWN PRIOR TO GRADING AND POURING CURBS.



CONSTRUCTION NOTES: (NOTES APPLY TO SHEET C1.0 AND C4.0)

- ALL MATERIALS, WORKMANSHIP, TESTING AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE 2021 WASHINGTON STATE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE & MUNICIPAL CONSTRUCTION, THE CITY OF SPOKANE STANDARDS, AND THE CITY OF SPOKANE GENERAL SPECIAL PROVISIONS FOR PRIVATE CONTRACTS.
- CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- SEE GRADING AND DRAINAGE PLAN FOR GRADING AND ELEVATION OF CURBS, WALLS, PARKING AREAS, SIDEWALKS AND NEW ACCESSSES.
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF SPOKANE AND THE CITY OF SPOKANE FIRE DEPARTMENT FOR CONSTRUCTION TESTING AND INSPECTION AS NECESSARY. ALL TESTING SHALL BE PROVIDED, AS A MINIMUM, IN ACCORDANCE WITH CITY PERMIT REQUIREMENTS.
- INSTALLATION OF CONCRETE CURB SHALL BE IN ACCORDANCE WITH CITY OF SPOKANE STANDARD PLAN NO. F-106. CURB SHALL BE INSTALLED WITH 6" EXPOSURE UNLESS NOTED OTHERWISE. PROVIDE 12" NOSE-DOWN AT LOCATIONS WHERE CURB DOES NOT MATCH INTO BUILDINGS, CURBING, OR RETAINING WALLS.
- ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF SPOKANE SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. NO REVISIONS SHALL BE MADE TO THE APPROVED PLANS WITHOUT APPROVAL FROM THE CITY OF SPOKANE AND THE DESIGN ENGINEER OF RECORD.
- AN OBSTRUCTION PERMIT IS REQUIRED FOR ALL WORK WITHIN CITY RIGHT-OF-WAY. IF APPLICABLE, A TRAFFIC CONTROL PLAN, (INCLUDING PEDESTRIAN TRAFFIC CONTROL FOR SIDEWALK CLOSURES) WILL BE REQUIRED WITH THE OBSTRUCTION PERMIT APPLICATION. ALL FEES AND TRAFFIC CONTROL PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR TO COORDINATE PARKING METER POST FOOTING INSTALLATION, POST INSTALLATION AND METER HEAD INSTALLATION WITH CITY FORCES. CONTRACTOR IS RESPONSIBLE TO REMOVE AND SALVAGE EXISTING PARKING METERS. CONTRACTOR TO COORDINATE REUSE OF EXISTING (SALVAGED) PARKING METER HEADS WITH CITY FORCES. CONTRACTOR PAYS FOR PARKING METER POST FOOTING. CITY PAYS FOR PARKING METER POST, POST INSTALLATION AND METER HEAD INSTALLATION.
- ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF SPOKANE STANDARD PLAN NO. G-10A, G-10C, G-20A AND G-20B. STREET SIGN POST LOCATIONS SHALL BE FIELD LOCATED/VERIFIED BY THE CITY OF SPOKANE PRIOR TO INSTALLATION.
- ALL SIDEWALKS, CURBS, AND DRIVEWAY APPROACHES ADJACENT TO THE PROPERTY WILL BE REVIEWED BY THE CITY AT THE END OF THE PROJECT WHEN A CERTIFICATE OF OCCUPANCY IS REQUESTED. IF ANY ARE FOUND TO BE BROKEN, HEAVED, SUNKEN OR MISSING, THEY MUST BE REPAIRED/REPLACE WHETHER THE DAMAGE WAS EXISTING OR CAUSED BY CONSTRUCTION, AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL REQUEST A SIDEWALK INSPECTION PRIOR TO REQUESTING OCCUPANCY BY CONTACTING THE CITY OF SPOKANE AT (509) 625-6300 TO ARRANGE A SITE VISIT.
- THE CONTRACTOR SHALL PROVIDE THE OWNER AND DESIGN ENGINEER WITH RECORD DRAWINGS PRIOR TO FINAL APPROVAL. ALL DEVIATIONS FROM THE ORIGINAL PLANS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING LOCATIONS, INVERTS AND DEPTHS OF UTILITIES SHALL BE CLEARLY MARKED ON THE RECORD DRAWINGS.
- PATCH PAVEMENT PER COS STD. PLAN W-101A "ARTERIAL STREET", 5" CL. 1" HMA (PG64H-28) OVER 7" CSBC. THIS PAVEMENT SECTION APPLIES TO POST STREET, 3RD AVENUE AND WALL STREET. SAWCUT ALL EXISTING ASPHALT EDGES PRIOR TO MATCHING WITH NEW ASPHALT SECTION. ALL PAVEMENT CUTS IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE REGIONAL PAVEMENT CUT POLICY.
- THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING SERVICES CONSTRUCTION MANAGEMENT OFFICE, 1225 E. MARIETTA AVE., 509-625-7722 TO ARRANGE A MUTUALLY AGREEABLE "START WORK DATE".
- CONTRACTOR TO PROTECT EXISTING TRAFFIC SIGNAL, POLE-SINGLE MAST ARM, FOUNDATION AND CONDUIT DURING CONSTRUCTION. ELECTRICAL SERVICE AND TRAFFIC SIGNALIZATION TO BE UNINTERRUPTED DURING CONSTRUCTION.
- INSTALLATION OF CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH CITY OF SPOKANE STANDARD PLAN NO. F-102.
- INSTALL 1" IRRIGATION METER WITH 1" SERVICE AND NEW CURB STOP WITH BOX AS PER CITY OF SPOKANE STANDARD PLANS Y-111 AND Y-112. METER BOX SHALL BE CENTERED 3.25' BEHIND FACE OF CURB AND A MINIMUM 10' FROM EDGE OF WALL. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, EXCAVATION, BEDDING, BACKFILL, COMPACTION, REMOVAL AND REPLACEMENT OF EXISTING IMPROVEMENTS AND INSTALLATION OF METER BOX IN ACCORDANCE WITH CITY REQUIREMENTS. CONTRACTOR TO COORDINATE RELOCATION OF EXISTING SERVICE PIPE TO CONNECT TO NEW CURB STOP AND INSTALLATION OF SERVICE FROM CURB STOP TO THE METER WITH CITY OF SPOKANE WATER DEPARTMENT. RELOCATION, INSTALLATION AND MATERIALS SHALL BE PER CITY OF SPOKANE STANDARDS. ALL METER AND TAP FEES SHALL BE PAID BY THE CONTRACTOR.
- FIRE HYDRANT SHALL BE INSTALLED AS PER CITY OF SPOKANE STANDARD PLAN Y-101. CONNECT AT EXIST. TEE WITH NEW VALVE AND VALVE BOX. PROVIDE A MINIMUM 3' CLEAR AROUND FIRE HYDRANT FROM STRUCTURES, CURB AND LANDSCAPE.
- EXISTING ABANDONED WATER SERVICE SHALL BE "KILLED" BY CITY FORCES AT THE CONNECTION TO THE MAIN. ACTUAL WORK ON WATER SERVICE AND AT MAIN SHALL BE COMPLETED BY CITY FORCES. CONTRACTOR TO COORDINATE AND PROVIDE, TRAFFIC CONTROL, EXCAVATION, BEDDING, BACKFILL, COMPACTION AND ASPHALT REMOVAL AND REPLACEMENTS. CONTRACTOR TO PROVIDE FOR REMOVAL OF EXIST. SERVICE LINE. BACKFILL AND COMPACT W/STRUCTURAL MATERIAL UPON COMPLETION OF REMOVAL.
- CONTRACTOR TO EXCAVATE AND DETERMINE SOURCE OF UNKNOWN 1" DIA. UTILITY AND CONTACT AVISTA PROJECT MANAGER AND DESIGN ENGINEER WITH RESULT OF INVESTIGATION TO DETERMINE REMOVAL OR ADJUSTMENT OF UTILITY. FOR BID PURPOSES, CONTRACTOR TO ASSUME ADJUSTMENT OF UTILITY AND FRAME COVER TO FINISH GRADE.
- CURBING INSTALLATION ALONG POST STREET SHALL BE IN ACCORDANCE WITH SECTION B EXCEPT, CURBING SHALL BE CONCRETE CURB & GUTTER IN LIEU OF CONCRETE CURB AND MINIMUM 3' ASPHALT REPLACEMENT SHALL EXTEND FROM LIP OF GUTTER.

Revisions:



SITE SURFACING / HORIZ.
CONTROL PLAN

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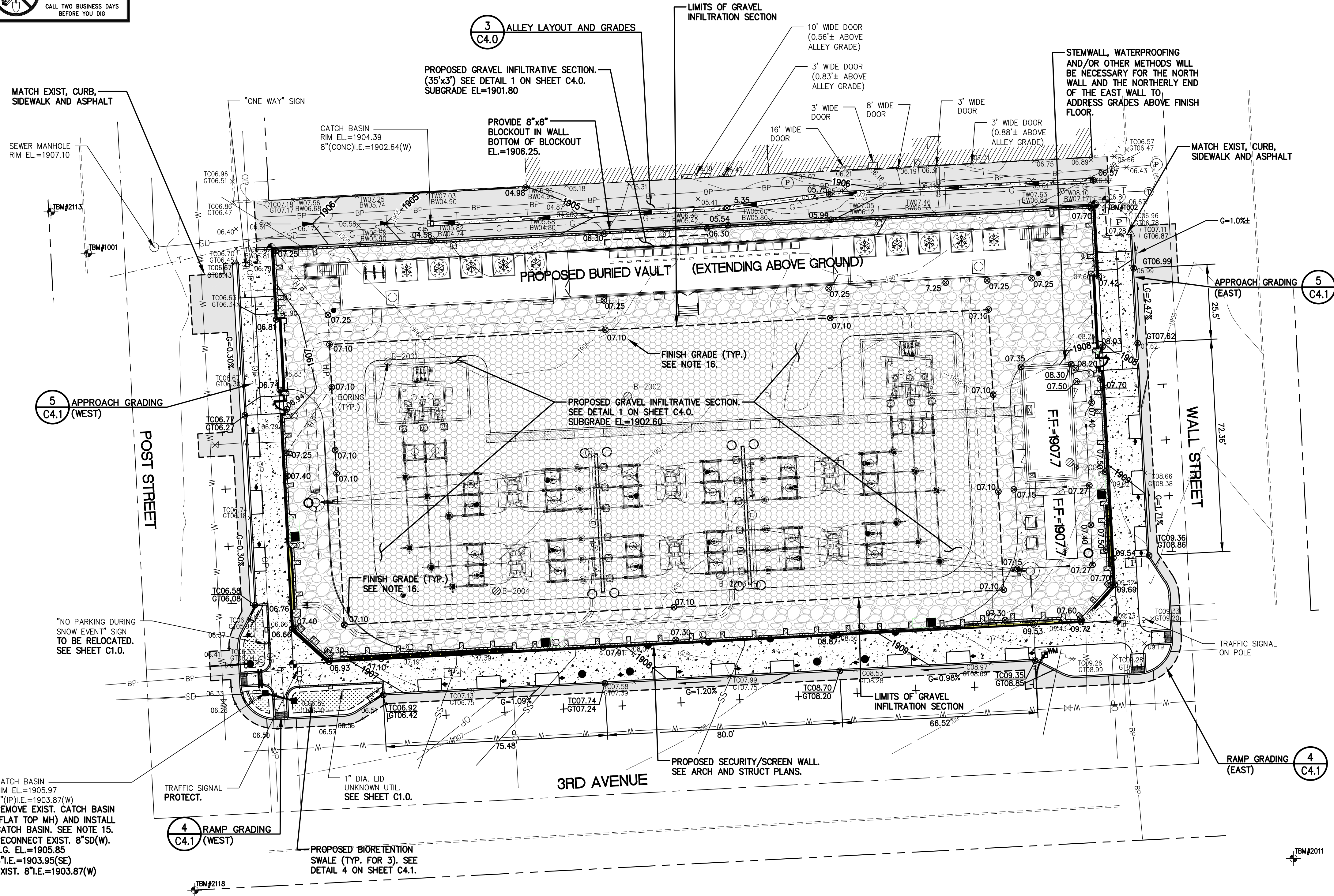
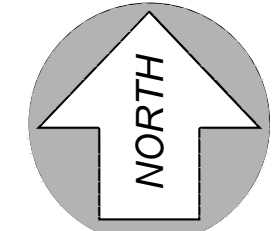
Project No.: 20.134
Date: 9.28.21
Drawn By: S.M.B.
Checked By: M.J.L.

Sheet No.

C1.0

PERMIT REVIEW DRAWING (9-28-21)

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. PARAMETRIX MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.



CONSTRUCTION NOTES: (NOTES APPLY TO SHEETS C2.0 AND C4.1)

1. ALL MATERIALS, WORKMANSHIP, TESTING AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH WASHINGTON STATE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE & MUNICIPAL CONSTRUCTION, THE CITY OF SPOKANE STANDARDS, AND THE CITY OF SPOKANE GENERAL SPECIAL PROVISIONS FOR PRIVATE CONTRACTS.
2. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION AND MATERIAL OF EXISTING UTILITIES AT POINTS OF CONNECTION AND CROSSINGS PRIOR TO CONSTRUCTION. ALL EXISTING UTILITIES ON SITE ARE ASSUMED TO BE REMOVED OUT TO PROPERTY LINE. CONTRACTOR SHALL VERIFY ACTUAL LIMITS OF REMOVAL WITH AVISTA.
4. ALL STORM PIPING SHALL BE AS SPECIFIED ON THE PLANS. PVC PIPE (PVC) SHALL CONFORM TO ASTM D3034, SDR 35 FOR PIPE SIZES SMALLER THAN 18" DIAMETER AND IN ACCORDANCE WITH ASTM F-679(-1) FOR PIPE SIZES 18" IN DIAMETER AND LARGER, UNLESS NOTED OTHERWISE. DUCTILE IRON PIPE (D.I.) SHALL BE CLASS 50.
5. LENGTHS FOR PIPING SHOWN ARE FROM CENTER OF CATCH BASIN, MANHOLE OR DRYWELL.
6. ALL STORM DRAIN PIPE CONNECTIONS SHALL BE MADE WITH WYES.
7. CONTRACTOR SHALL PROVIDE EROSION PROTECTION, AS A MINIMUM, IN ACCORDANCE WITH THE TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN DEVELOPED FOR THIS PROJECT AND THE SRSM. CONTRACTOR SHALL ALSO CONFORM TO ANY ADDITIONAL REQUIREMENTS SET FORTH BY A CONSTRUCTION STORMWATER GENERAL PERMIT, AS OBTAINED BY THE OWNER.
8. STORM LINE TRENCHING AND BACKFILL SHALL BE PER CITY OF SPOKANE STANDARD PLAN B-18C AND B-18D. IF THERE IS 6", OR LESS, OF CLEARANCE BETWEEN UTILITIES AT CROSSING, INSTALL CONTROL DENSITY FILL (COP) BETWEEN CROSSING UTILITIES TO ENSURE COMPACTION.
9. ALL ADJUSTMENT RINGS AND CASTINGS SHALL BE ENTERED AND GROUTED ON ALL DRAINAGE STRUCTURES. CONTRACTOR SHALL GROUT AROUND ALL PIPES ENTERING AND EXITING STRUCTURES. PIPING SHALL NOT EXTEND MORE THAN 6" BEYOND INTERIOR OF DRAINAGE STRUCTURES, UNLESS OTHERWISE NOTED.
10. SITE EXCAVATION, INCLUDING ROCK CUTS AND REMOVAL, SHALL CONFORM TO SECTION 2-03 OF THE WSDOT STANDARD SPECIFICATIONS. EMBANKMENTS TO BE CONSTRUCTED ACCORDING TO THE APPLICABLE PARAGRAPHS OF SECTION 2-03 OF THE WSDOT STANDARD SPECIFICATIONS. EARTH EMBANKMENTS TO BE CONSTRUCTED USING METHOD B OF 2-03(14)C. ALL GRADING WORK SHALL ALSO CONFORM TO THE GEOTECHNICAL EVALUATION AND ADDENDUMS COMPLETED FOR THE SITE BY BUDINGER AND ASSOCIATES.
11. ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF SPOKANE SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR PRIOR TO CONSTRUCTION. NO REVISIONS SHALL BE MADE TO THE APPROVED PLANS WITHOUT APPROVAL FROM THE CITY OF SPOKANE AND THE DESIGN ENGINEER OF RECORD.
12. STORMWATER FACILITIES, INCLUDING DRYWELLS, C/S, PIPES, AND INFILTRATION GALLERIES, MUST BE CONSTRUCTED UNDER THE SUPERVISION OF THE WASTEWATER MANAGEMENT DIVISION. STORMWATER TREATMENT/DISPOSAL FACILITIES (208 SWALES/GRAVEL INFILTRATION AREAS) SHALL BE INSPECTED PRIOR TO PLACEMENT OF TOPSOIL OR GRAVEL INFILTRATIVE SECTION, PLANTINGS, OR GRASS. THE CONTRACTOR SHALL CONTACT THE WASTEWATER MAINTENANCE DIVISION OFFICE AT (509) 625-7905 OR (509) 625-7912 IN ORDER TO ARRANGE A MUTUALLY AGREEABLE INSPECTION SCHEDULE.
13. HORIZONTAL AND VERTICAL SEPARATION BETWEEN STORM AND SEWER LINES SHALL BE MAINTAINED IN ACCORDANCE WITH CITY OF SPOKANE STANDARD PLANS W-10, W-11, W-12 AND W-13.
14. ALL SPOT ELEVATIONS ARE FOR FINISH GRADE OF ASPHALT, CONCRETE WALK, GRAVEL, ROCK TOP DRESSING OR LANDSCAPE, UNLESS NOTED OTHERWISE. SPOT ELEVATIONS ARE ABBREVIATED FOR PLAN CLARITY, FOR ACTUAL ELEVATION ADD 1900 TO SPOT ELEVATIONS SHOWN. CURBING SHALL BE INSTALLED WITH 6" EXPOSURE FROM ASPHALT GUTTER TO TOP OF CURB, UNLESS NOTED OTHERWISE.
15. CATCH BASINS SHALL BE TYPE O PER CITY OF SPOKANE STANDARD PLAN B-101B INSTALLED WITH FRAME & GRATE, UNLESS NOTED OTHERWISE.
16. THE CONTRACTOR SHALL PLACE MARKING TAPE IN THE EXCAVATION TRENCH AT A MID-DEPTH LOCATION FOR ALL UNDERGROUND SIDE SERVICE INSTALLATIONS FOR THE PURPOSE OF ALERTING ANY FUTURE EXCAVATION IN THE SPECIFIC AREA.
17. THE SITE CONTRACTOR SHALL COORDINATE THE STORM DRAIN CONNECTIONS TO THE BUILDING WITH THE BUILDING CONTRACTOR AND MECHANICAL/ARCHITECTURAL PLANS. CONTRACTOR SHALL PROVIDE REDUCERS/FITTINGS/BENDS AS NECESSARY TO COMPLETE THE CONNECTION.
18. CONTRACTOR TO PROVIDE, INSTALL AND GROUT ADJUSTMENT RINGS AND BARREL SECTIONS AS NECESSARY TO COMPLETE ADJUSTMENT OF EXISTING DRAINAGE FACILITIES TO BE MAINTAINED. HEIGHT OF ADJUSTMENT RINGS FOR MANHOLES SHALL NOT EXCEED 16".
19. CONTRACTOR SHALL REMOVE ALL UNDOCUMENTED FILL AND UNSUITABLE SOIL ON SITE, WITHIN THE AVISTA PROPERTY LINES, AND REPLACE WITH COMPACTED STRUCTURAL FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT COMPLETED BY BUDINGER AND ASSOCIATES. TEST PITS SHALL ALSO BE REMEDIATED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. SEE REPORT FOR TEST PIT LOCATIONS. REMOVAL AND REPLACEMENT OF SOIL WITHIN THE GRAVEL INFILTRATIVE SECTION AREA SHALL BE COMPLETED IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.
20. UPON COMPLETION OF SITE IMPROVEMENTS, ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF OFF-SITE IN A LEGAL MANNER.
21. CONTRACTOR TO COORDINATE WITH OWNER'S GEOTECHNICAL ENGINEER TO PERFORM MATERIAL VERIFICATION AND/OR DRYWELL TESTING, AS REQUIRED BY THE CITY OF SPOKANE, FOR ALL OF THE DRYWELL AND/OR INFILTRATIVE STRUCTURE INSTALLATIONS.
22. PROPOSED ELEVATIONS SHOWN ALONG THE CURB AND NEW ASPHALT, ADJACENT TO SAWCUTS AND ASPHALT MANHOLE LOCATIONS, ARE BASED ON INTERPOLATED SPOT ELEVATIONS AND INTERPOLATION BETWEEN EXISTING CONTOURS AND SPOT ELEVATIONS SHOWN ON THE SURVEY. PROPOSED SPOT ELEVATIONS PROVIDE GUIDANCE FOR CURB AND ASPHALT INSTALLATION TO MAINTAIN DRAINAGE PATTERNS AND POSITIVE DRAINAGE. IF ELEVATIONS SHOWN CREATE EXCESSIVE GRADES OR POTENTIAL PONDING AREAS, CONTRACTOR TO CONTACT ENGINEER FOR REVIEW PRIOR TO PLACING ROCK OR SURFACING.

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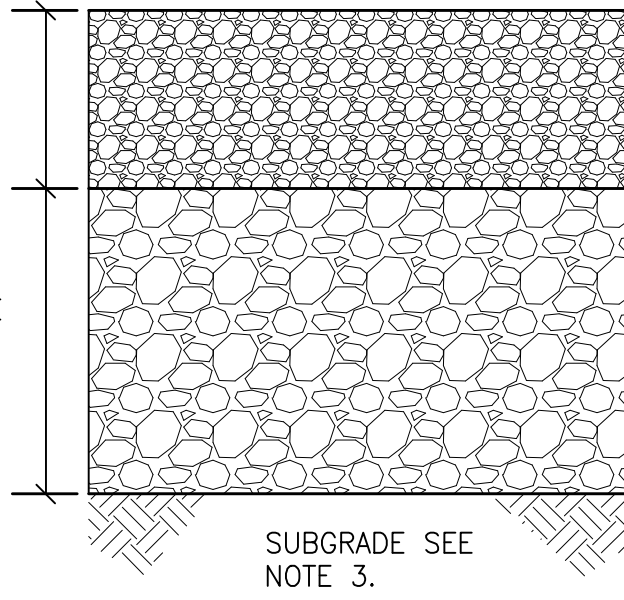
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Date:	9.28.21
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Checked By:	M.J.L.

Sheet No. _____

C2.0

PERMEABLE BALLAST AS PER 9-03.9(2) OF THE WSDOT STANDARD SPECIFICATIONS (18" COMPACTED DEPTH)

GRAVEL BORROW AS PER 9-03.14(1) OF THE WSDOT STANDARD SPECIFICATIONS (MIN 36" COMPACTED DEPTH)

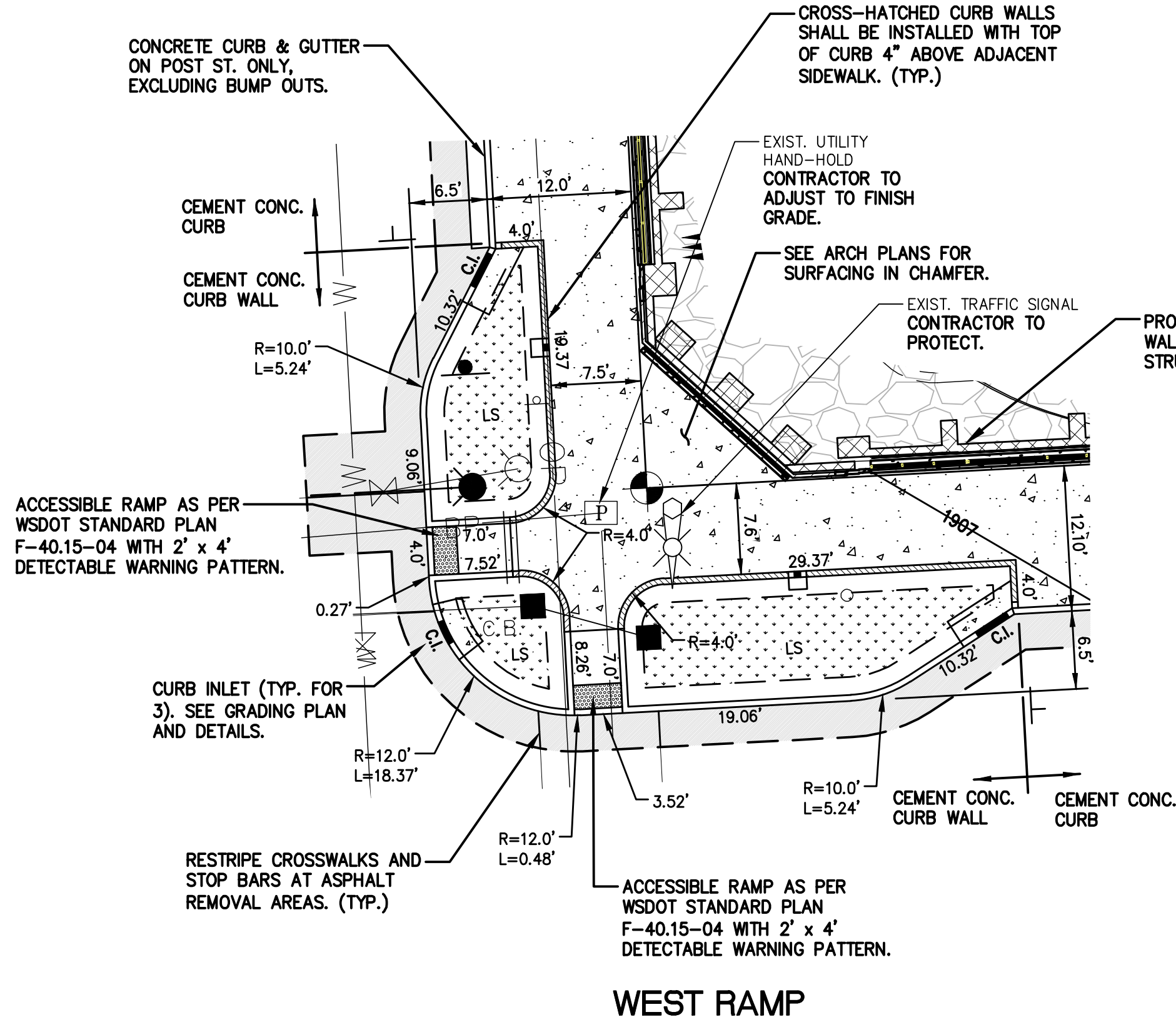


NOTES:

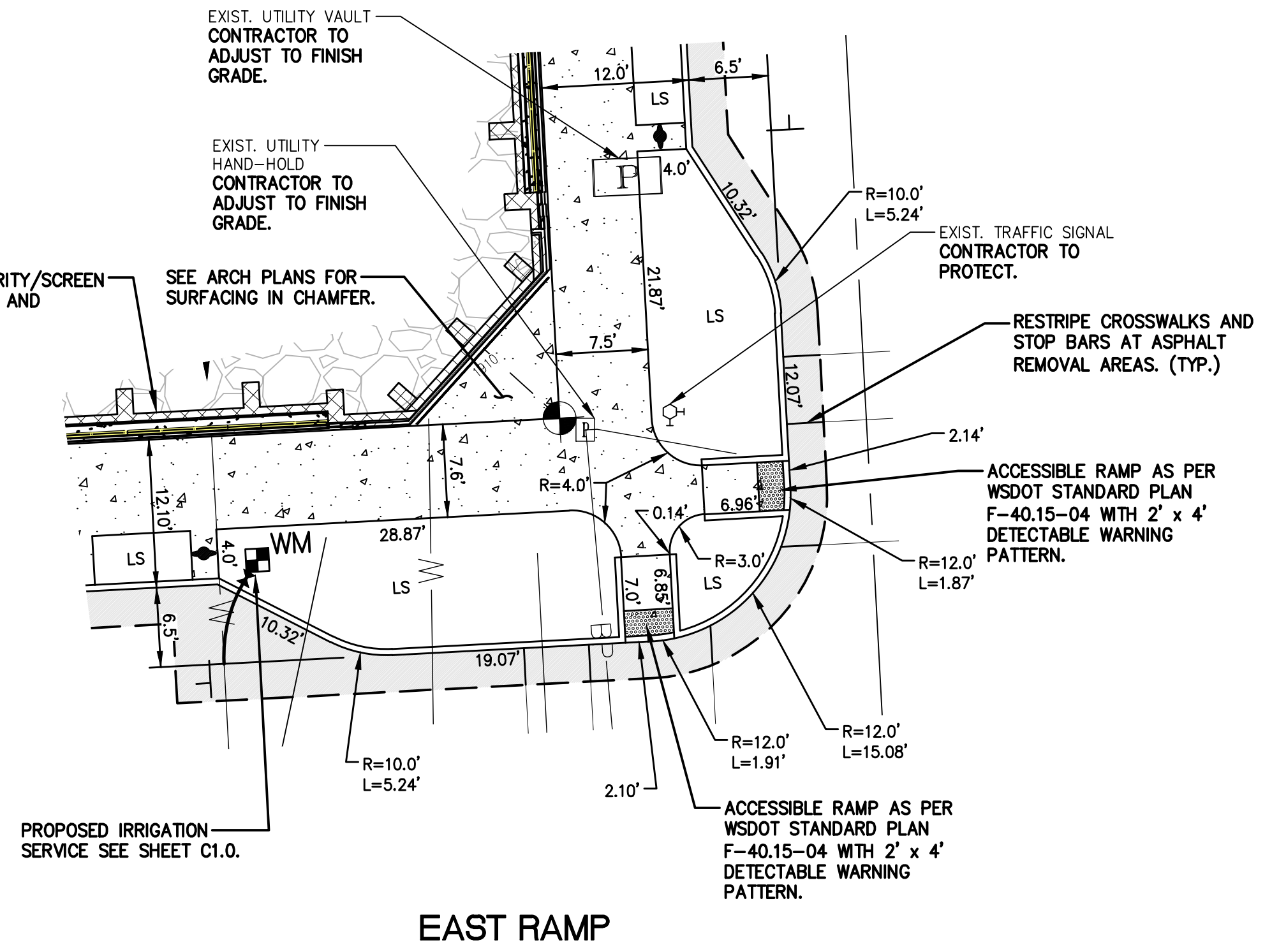
- ALL GRADING, ROCKING AND PAVING SHALL CONFORM TO THE 2021 WSDOT STANDARD SPECIFICATIONS.
- GRAVEL BORROW AND PERMEABLE BALLAST SHALL BE COMPACTED TO 80 PERCENT OF MAXIMUM DRY UNIT WEIGHT (MDUW) IN LIFTS SUITABLE TO THE COMPACTION EQUIPMENT UTILIZED.
- SUBGRADE SURFACE SHALL BE PROTECTED FROM DEGRADATION. PROTECTIVE MEASURES INCLUDE EROSION CONTROL MAINTENANCE DURING INCLEMENT WEATHER AND PREVENTING EQUIPMENT FROM DRIVING ON WET SUBGRADE TO AVOID DISTURBANCE. ANY MATERIAL REMOVED BELOW SUBGRADE FOR DEBRIS REMOVAL TYPE PURPOSES SHALL BE REPLACED WITH GRAVEL BORROW PER WSDOT SPECIFICATIONS. TRENCH BACKFILL FOR BURIED UTILITY INSTALLATION WITHIN THE SUBGRADE SHALL BE COMPLETED IN ACCORDANCE WITH THE UTILITY PURVEYOR REQUIREMENTS.
- ALL MATERIALS SHALL BE FROM A WSDOT APPROVED AGGREGATE SOURCE AND/OR WSDOT QUALIFIED PRODUCTS LIST.

1 INFILTRATIVE GRAVEL SECTION

NOT TO SCALE



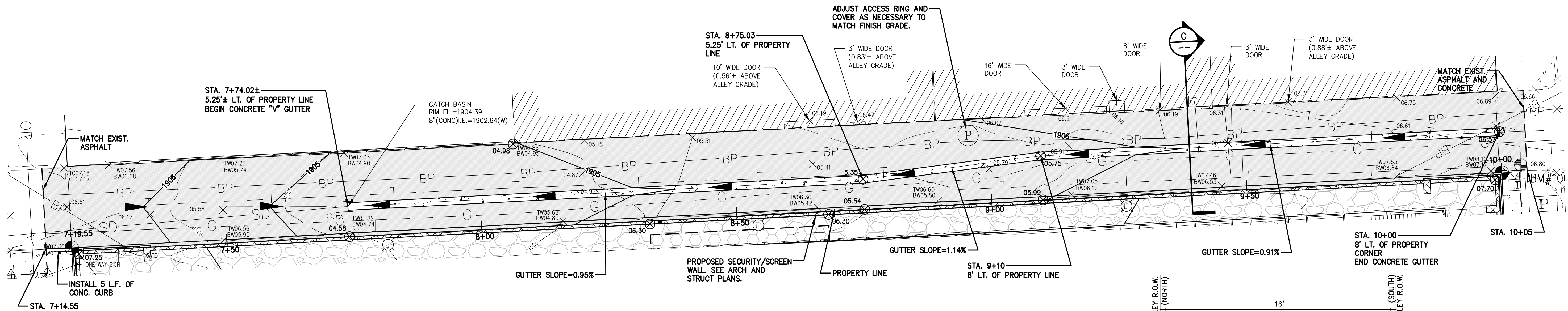
WEST RAMP



EAST RAMP

2 RAMP LAYOUT

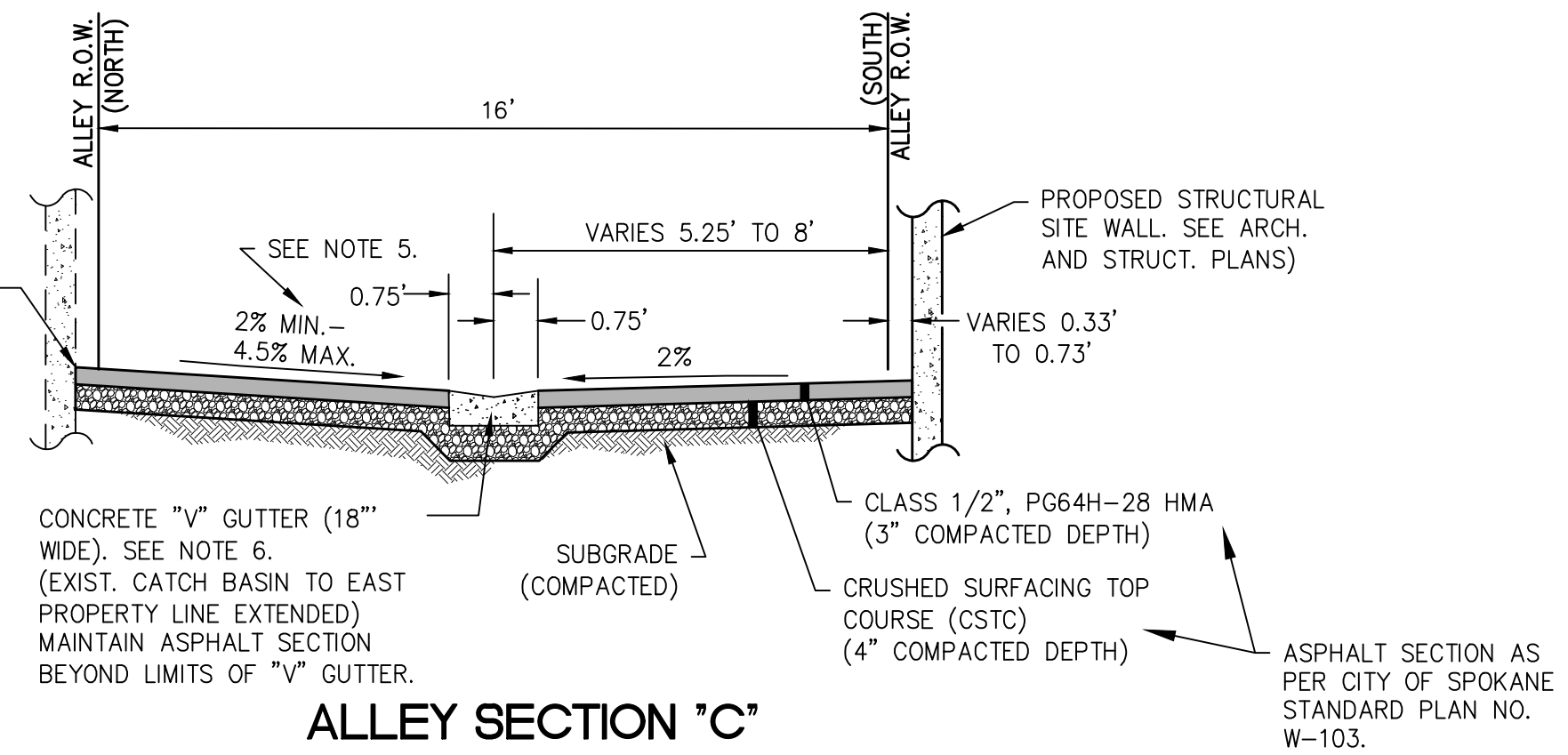
SCALE: 1"=10'



NOTES:

- ALL GRADING, ROCKING AND PAVING SHALL CONFORM TO THE 2021 WSDOT STANDARD SPECIFICATIONS.
-(HMA) - SECTIONS 5-04 HOT MIX ASPHALT, 9-03.8(6) AGGREGATES FOR HOT MIX ASPHALT.
-(CSTC) - SECTION 9-03.9(3) TOP COURSE FOR AGGREGATE BASE.
- HOT MIX ASPHALT SHALL BE WSDOT HMA CLASS 3 PG64H-28 COMPACTED TO MIN. 92% OF RICE DENSITY AS DEFINED IN SECTION 5-04.3(10) OF THE 2021 WSDOT STANDARD SPECIFICATIONS. HMA SHALL BE A CITY OF SPOKANE APPROVED MIX.
- COMPACT NATIVE SUBGRADE, STRUCTURAL FILL AND CSTC TO A MINIMUM 95% MAXIMUM DRY DENSITY AS PER ASTM D1557.
- ALL MATERIALS SHALL BE FROM A WSDOT APPROVED AGGREGATE SOURCE AND/OR QUALIFIED PRODUCTS LIST.
- CONTRACTOR SHALL VERIFY ROAD CROSS SLOPE CONFORMS TO ACCEPTABLE SLOPES SHOWN PRIOR TO GRADING AND POURING CONCRETE "V" GUTTER.
- CONCRETE "V" GUTTER SHALL BE PER CITY OF SPOKANE STANDARD PLAN NO. F-106A EXCEPT, DEPRESSION SHALL BE 1" IN LIEU OF 2".

MATCH TO ORIGINAL ASPHALT GRADE AT EXIST. BUILDING/WALL/CONCRETE, UNLESS NOTED OTHERWISE.



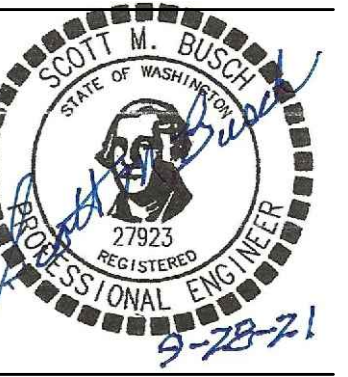
ALLEY SECTION "C"

3 ALLEY LAYOUT AND GRADES

SCALE: 1"=10'

SEE SHEET C1.0 FOR CONSTRUCTION NOTES.

Revisions:



CIVIL SITE DETAILS

PERMIT REVIEW DRAWING (9-28-21)

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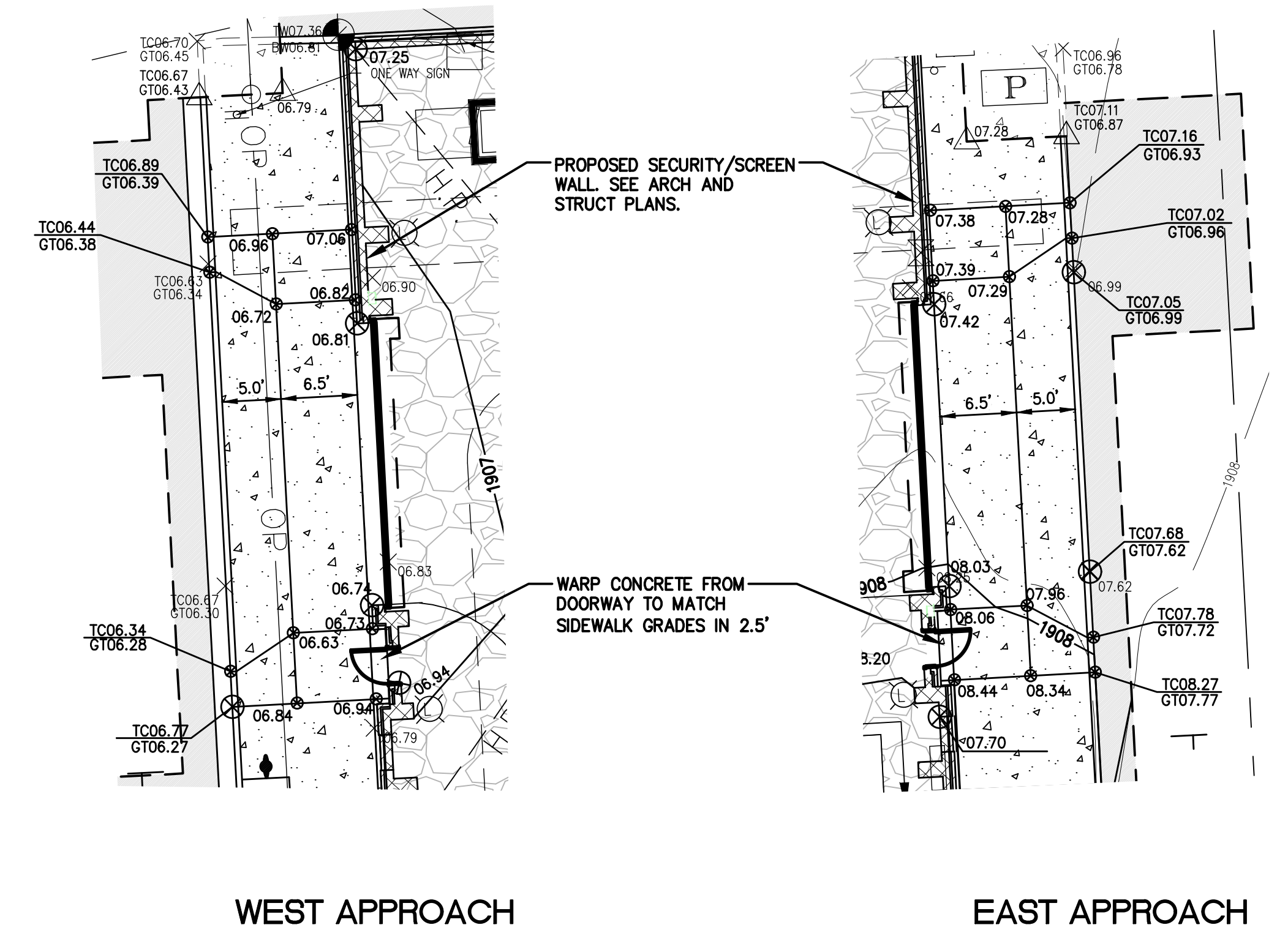


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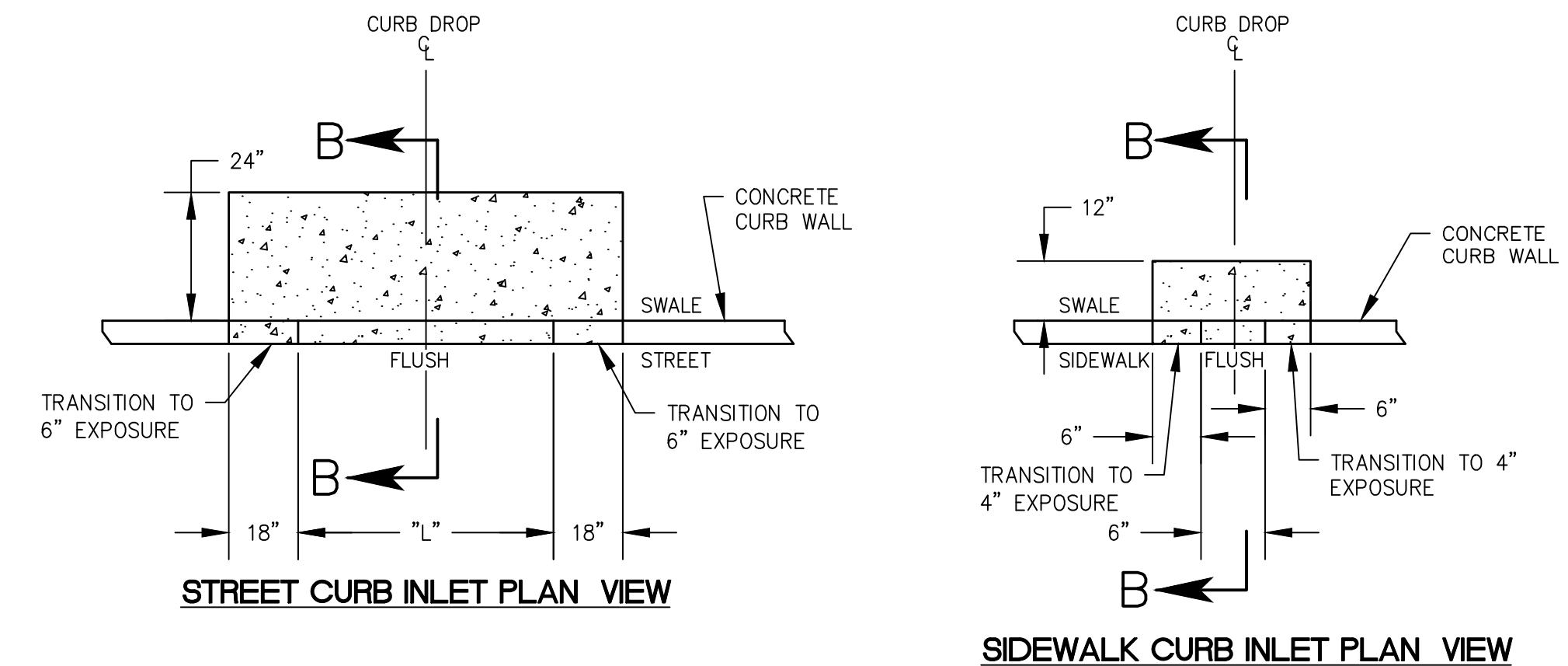
C4.0



EAST APPROACH

SCALE: 1"=10'

SCALE: 1"=10'

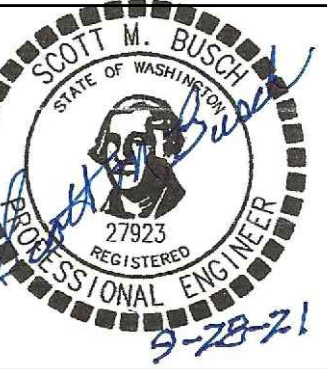


NOTES:

-
- Diagram illustrating the cross-section detail of a concrete curb wall and bioretention facility bottom. The structure includes a concrete curb wall (per detail 6 of this sheet) and a bioretention facility bottom (section per detail 6 of this sheet). The bottom layer is composed of 12" S/W and 24" S.T. material, with a 6" layer of material below it. The HMA section is per detail B, sheet C1.0.

NOT TO SCALE

visions:



GRADING/DRAINAGE DETAILS

PERMIT REVIEW DRAWING (9-28-21)

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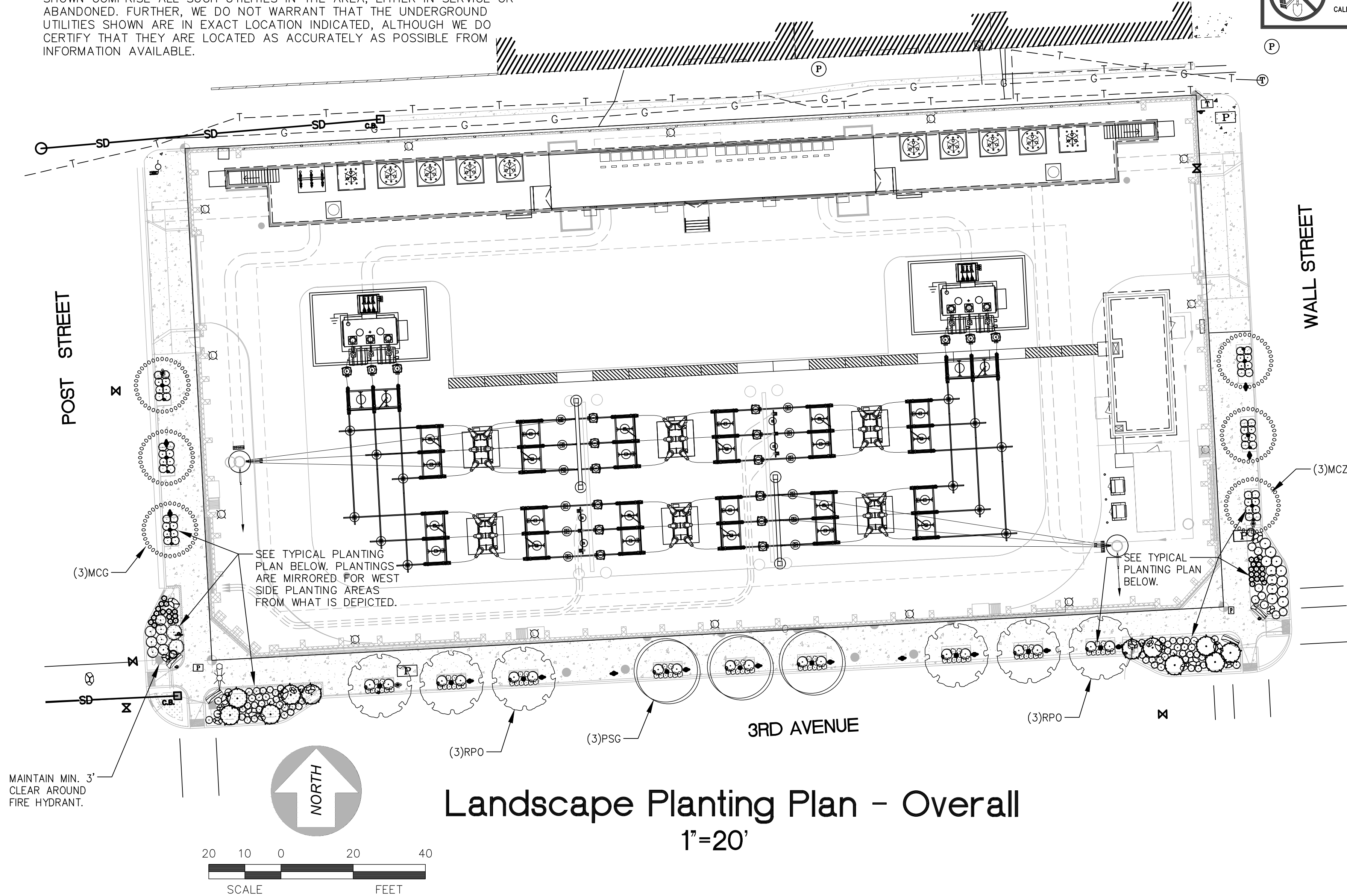
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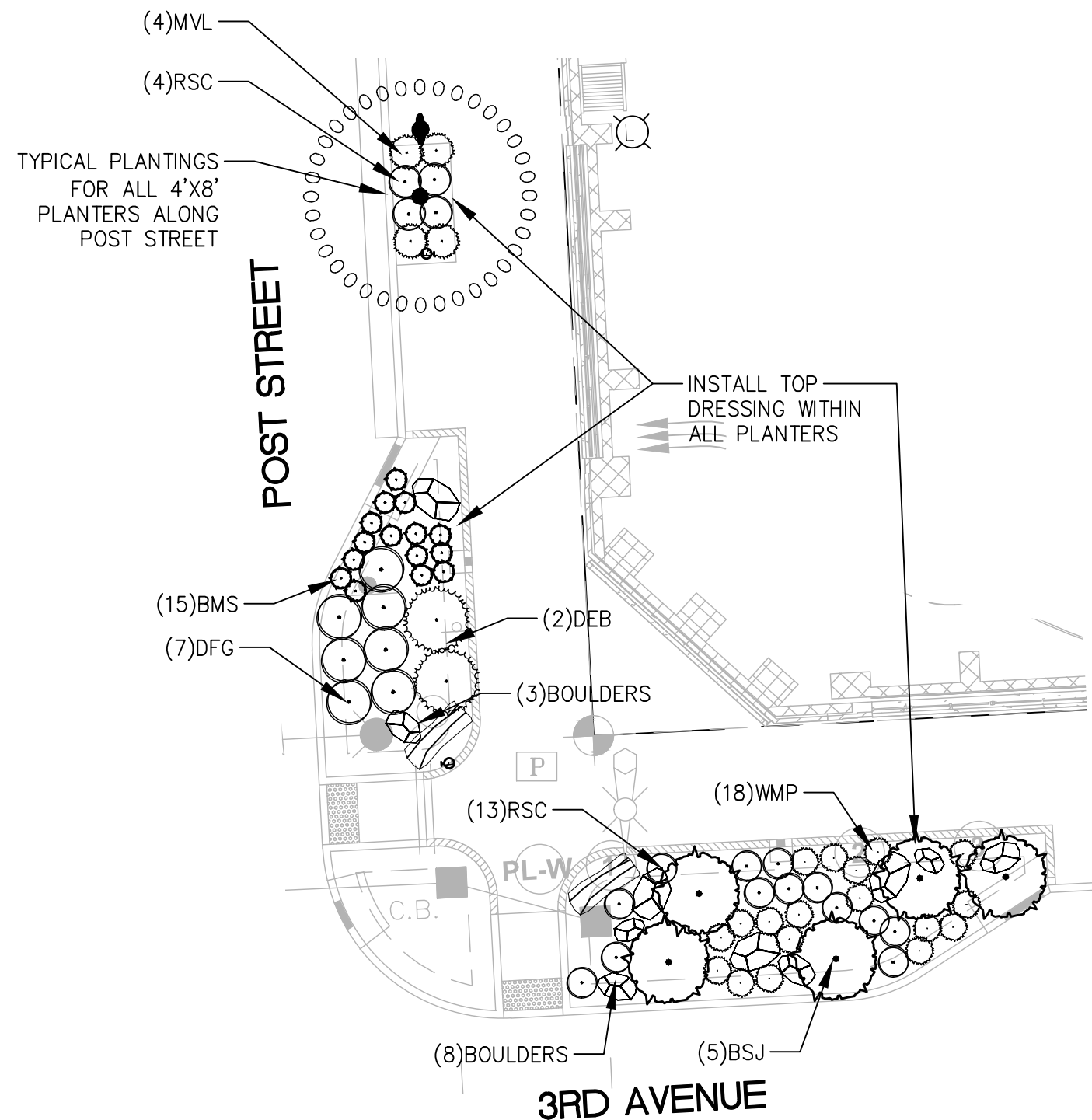
C4.1

UTILITY STATEMENT

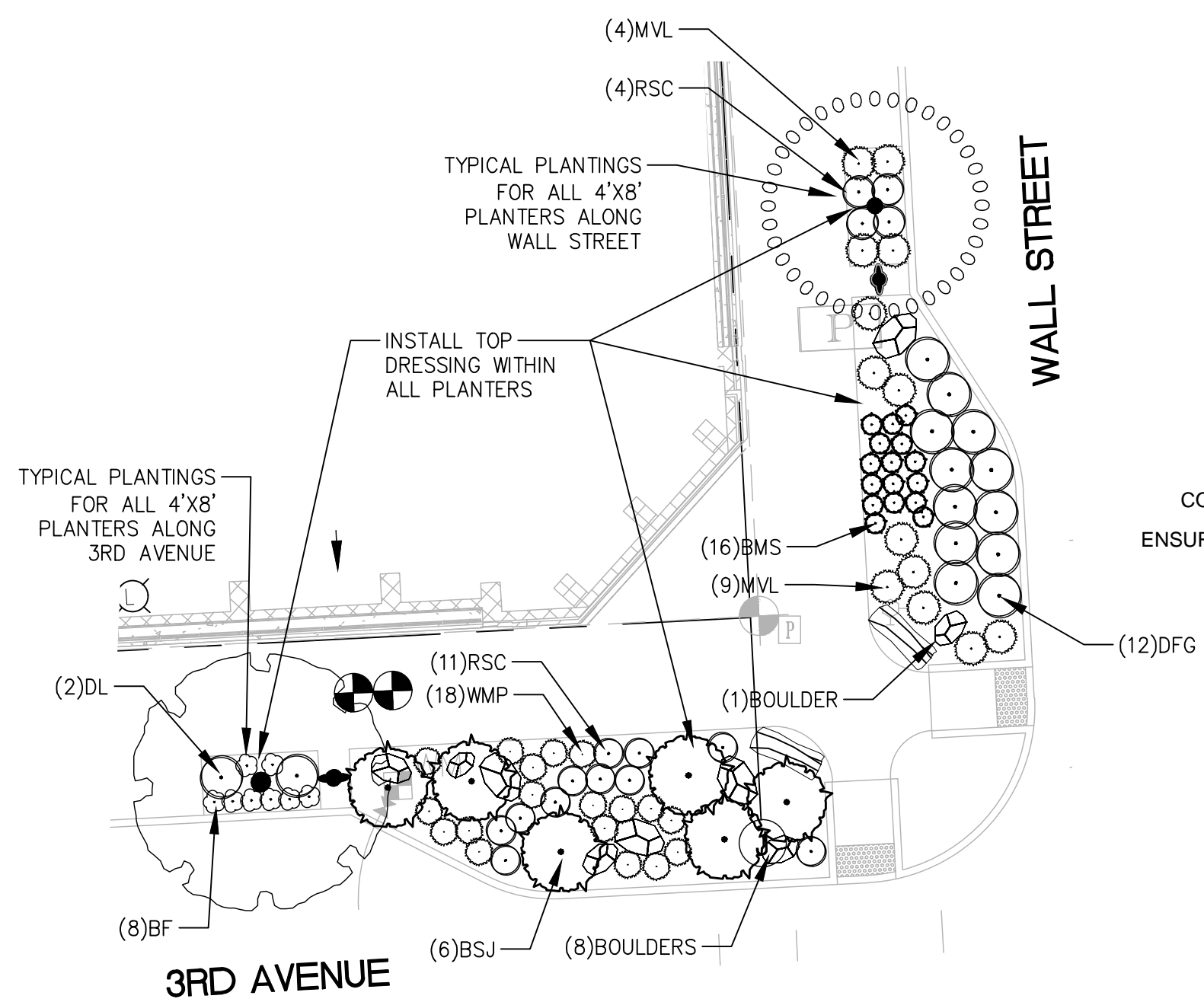
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. TAYLOR ENGINEERING, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.



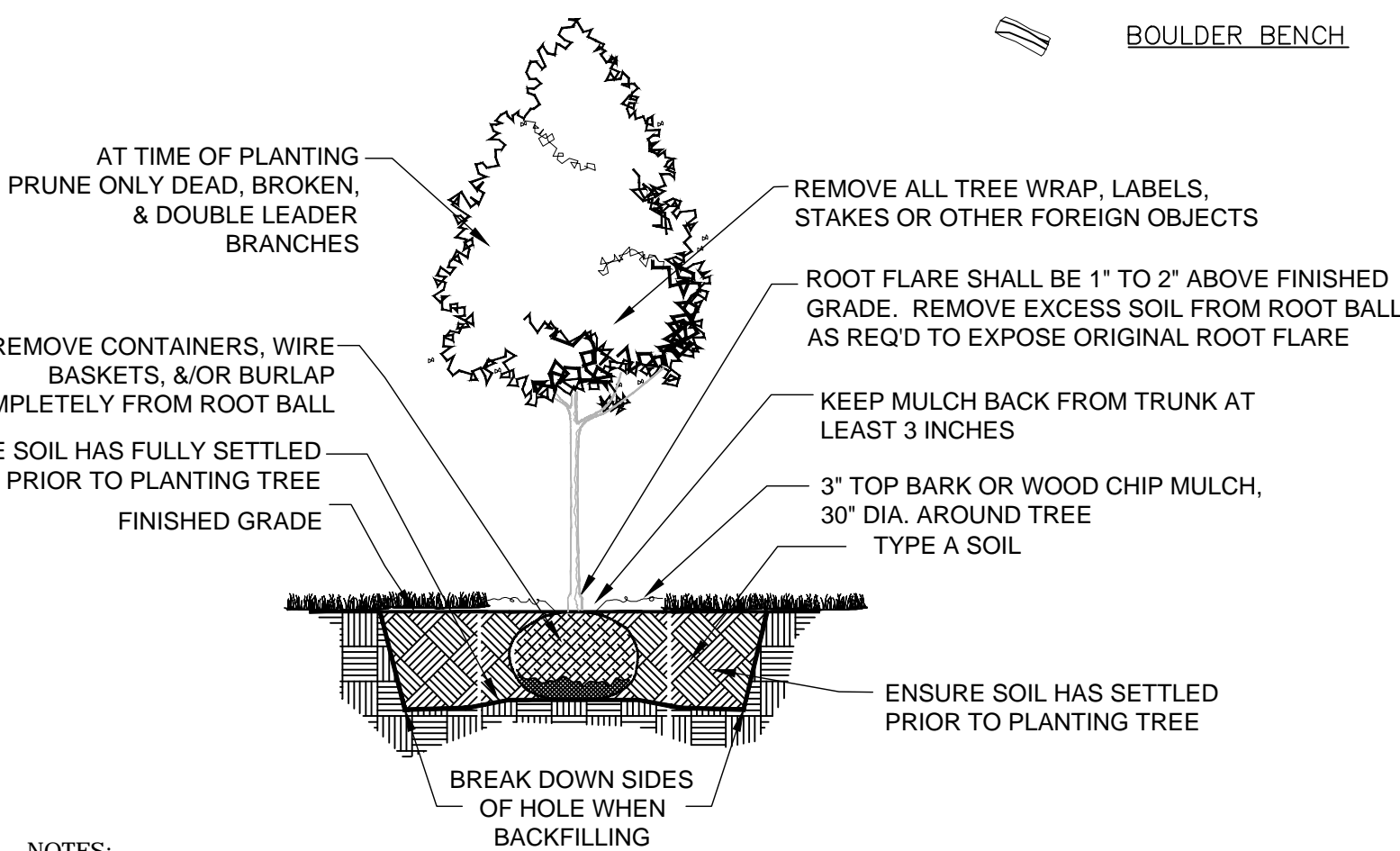
Landscape Planting Plan - Overall
1"=20'



Shrub Planting Plan - West
1"=10'



Shrub Planting Plan - East
1"=10'



NOTES:

1. TREES BURIED TOO DEEP, OR WITHOUT EXPOSING ROOT FLARE WILL BE REJECTED & SHALL BE REMOVED & REPLANTED AT PROPER DEPTH.
2. ALL 'ADVENTITIOUS ROOTS' AND 'SUCKERS' SHALL BE PRUNED AWAY PRIOR TO PLANTING.
3. DEVIATIONS FROM THIS DETAIL SHALL ONLY BE ALLOWED WITH PERMISSION FROM THE CITY ARBORIST.
4. TREES NOT PLANTED IN CONFORMITY WITH THIS DETAIL WILL BE REJECTED BY THE CITY ARBORIST. REPLACEMENT OF REJECTED TREES WILL BE DONE AT THE CONTRACTOR'S EXPENSE & NOT BY THE CITY OF SPOKANE.
5. AFTER PLANTING, IF TREES ARE UNSTABLE, STAKING MAY BE USED BUT ONLY AS NECESSARY. AT 6 MONTHS, ALL STAKING MATERIAL SHALL BE REMOVED. IF TREE IS STILL UNSTABLE, AFTER 6 MONTHS, TREE MAY NEED TO BE REPLACED.

1 CITY OF SPOKANE STREET TREE PLANTING DETAIL

GENERAL PLANTING NOTES

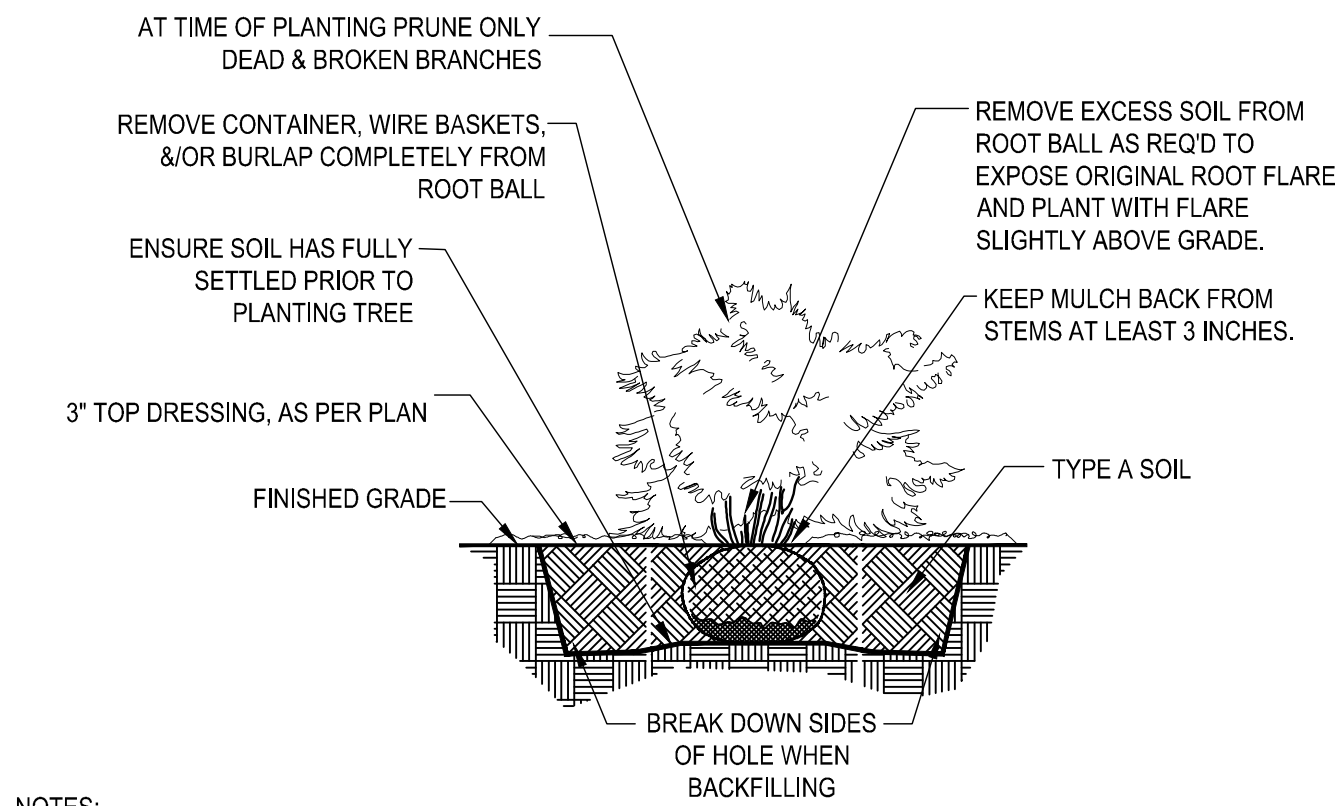
1. PLANT MATERIAL SHALL BE PLANTED IN THE LOCATIONS SHOWN. MAINTAIN SPACING AND DISTANCES RELATIVE TO HARD FEATURES. PLANT MATERIAL SHALL BE INSTALLED PER PLANTING DETAILS. ADJUST PLANT LOCATIONS TO ACCOMMODATE UTILITIES, VAULTS, ETC.
2. WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH THIS TYPE OF WORK AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. THE FOREMAN SHALL REMAIN ON-SITE DURING ALL LANDSCAPE SOIL PREPARATION, IRRIGATION AND PLANTING OPERATIONS.
3. THE OWNER OR HIS REPRESENTATIVE RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS AND DELETIONS IN THE PLANTING SCHEME AS THEY FEEL NECESSARY WHILE WORK IS IN PROGRESS. SUCH CASES ARE TO BE ACCOMPANIED BY EQUITABLE ADJUSTMENT. SUBSTITUTIONS SHALL NOT DEVIATE FROM MUNICIPALITIES' LANDSCAPE REQUIREMENTS OR APPROVED LANDSCAPE PLANS.
4. PROTECT EXISTING AND PROPOSED LANDSCAPING FROM DAMAGE. ANY DAMAGE OCCURRING ON THE JOB SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT THE DISCRETION OF THE OWNER.
5. "PLANTING QUANTITIES" ARE SHOWN ON THE PLANS ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT GUARANTEED. ALL PLANTING INDICATED ON THE DRAWINGS SHALL BE REQUIRED.
6. INSTALL AND TILL 36" TOPSOIL INTO RECTANGULAR PLANTING AREAS WITH TREES AND 18" OF TOPSOIL INTO OTHER PLANTING AREAS. INSTALL TOPSOIL IN 6" LIFTS AND ALLOW TO SETTLE. INSTALL IRRIGATION AND PLANTINGS ONLY AFTER ALL SETTLING IS COMPLETE. INSTALL ADDITIONAL TOPSOIL AS NECESSARY TO BRING THE SOIL TO THE HEIGHT RELATIVE TO THE SIDEWALK, AS SHOWN ON THE DETAIL.
7. THE SITE SHALL BE WEED-FREE UPON COMPLETION OF PROJECT AND ACCEPTANCE BY OWNER.
8. ALL PLANTS SHALL BE HEALTHY AT TIME OF PLANTING AND UPON OWNER'S ACCEPTANCE.
9. THE CONTRACTOR SHALL WARRANTY ALL PLANT MATERIAL FOR A PERIOD OF ONE-YEAR FROM ACCEPTANCE BY OWNER. THE CONTRACTOR SHALL REPLACE IMMEDIATELY ANY DEAD, DYING, DAMAGED, DISEASED, OR OTHERWISE UNHEALTHY PLANTS.
10. TOP OF THE TOP DRESSING SHALL BE FLUSH WITH TOPS OF ADJACENT HARD SURFACES, INCLUDING CURBING.

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME / BOTANICAL NAME	SIZE	CLASS
	PSG	3	PRINCETON SENTRY GINKGO / GINKGO BILOBA 'PRINCETON SENTRY'	2" CAL.	CLASS II
	RPO	6	REGAL PRINCE OAK / QUERCUS ROBUR X BICOLOR 'LONG'	2" CAL.	CLASS II
	MCZ	6	MUSASHINO COLUMNAR ZELVOKVA / ZELKOVA SERRATA 'MUSASHINO'	2" CAL.	CLASS II
SHRUBS					
SYMBOL	CODE	QTY	COMMON NAME / BOTANICAL NAME	CONT.	SIZE (H x W)
	MVL	35	PRUNUS LAUROCERASUS 'MOUNT VERNON' / MOUNT VERNON ENGLISH LAUREL	2 GAL.	2' x 4'
	DFG	19	DWARF FOUNTAIN GRASS / PENNISETUM ALOPECUROIDES 'HAEMELN'	1 GAL.	2' x 1.5'
	BMS	31	BLUE MARVEL SALVIA / SALVIA NEMOROSA 'BLUE MARVEL'	1 GAL.	1' x 1'
	RSC	50	RED SATIN COREOPSIS / RED FLOWERS	1 GAL.	1.5' x 1.5'
	BSJ	11	BLUE STAR JUNIPER / JUNIPERUS SQUAMATA 'BLUE STAR'	2 GAL.	2' x 4'
	WMP	36	CARSTEN'S WINTERGOLD MUGO PINE / PINUS MUGO 'CARSTEN'S WINTERGOLD'	2 GAL.	2' x 2.5'
	BF	72	BOULDER BLUE FESCUE / FESTUCA GLAUCA 'BOULDER BLUE'	1 GAL.	1' x 1'
	DL	16	STELLA DE ORO DWARF DAYLILY / HEMEROCALLIS x 'STELLA DE ORO'	1 GAL.	2' x 2'

LANDSCAPE LEGEND

- TOP DRESSING**
1"-2" CABINET MOUNTAIN SLATE STONE
INSTALL 2" MIN. DEEP WITHIN ALL PLANTING AREAS. PULL BACK FROM BASE OF PLANTS. AVOID COVERING AND/OR DAMAGING PLANTS WHEN PLACING TOP DRESSING. DAMAGED PLANTS WILL BE REJECTED.
- LANDSCAPE BOULDER**
ANGULAR, NATURALLY BROKEN GRANITE BOULDER, 2'-3' DIAMETER. (QUANTITY: 18)
- BOULDER BENCH**
BOULDER BENCH TO BE APPROX. 5'Lx2'Dx2'H HAVING A FLAT TOP SURFACE. CONTRACTOR TO SOURCE BENCH BOULDERS WITH OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PROCUREMENT. CONTRACTOR TO FIELD LOCATE THE BOULDER BENCHES AS SHOWN IN PLANS WITH OWNER'S REPRESENTATIVE.

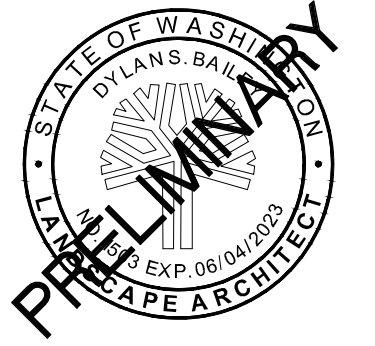


NOTES:

1. SHRUBS BURIED TOO DEEP, OR WITHOUT EXPOSING ROOT FLARE WILL BE REJECTED & SHALL BE REMOVED & REPLANTED AT PROPER DEPTH.
2. DEVIATIONS FROM THIS DETAIL SHALL ONLY BE ALLOWED WITH PERMISSION FROM THE CITY ARBORIST.
3. SHRUBS NOT PLANTED IN CONFORMITY WITH THIS DETAIL WILL BE REJECTED BY THE CITY ARBORIST. REPLACEMENT OF REJECTED SHRUBS WILL BE DONE AT THE CONTRACTOR'S EXPENSE & NOT BY THE CITY OF SPOKANE.

2 CITY OF SPOKANE SHRUB PLANTING DETAIL

Revisions:



LANDSCAPE PLANTING PLAN

PERMIT REVIEW DRAWING (9-28-21)

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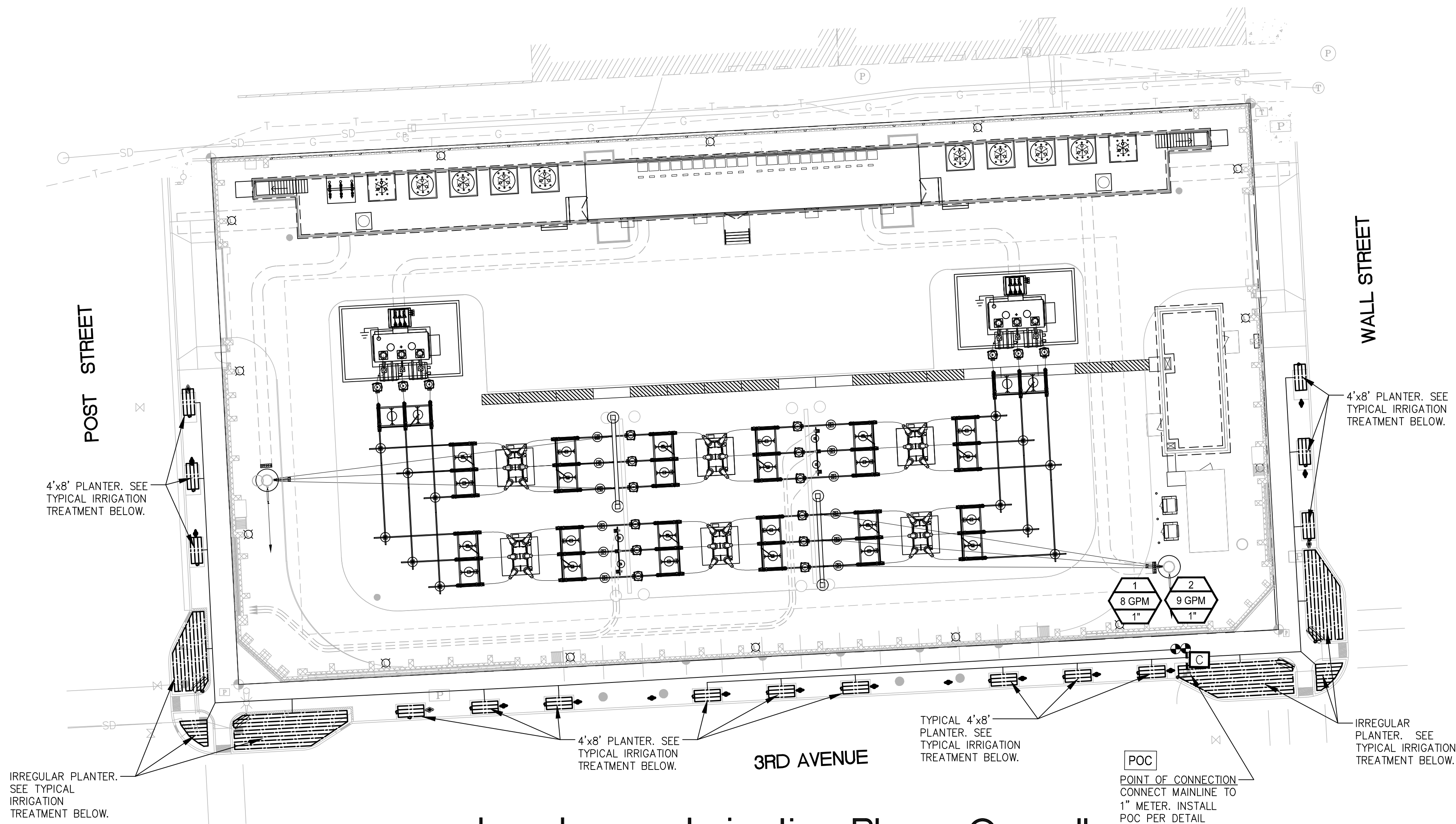


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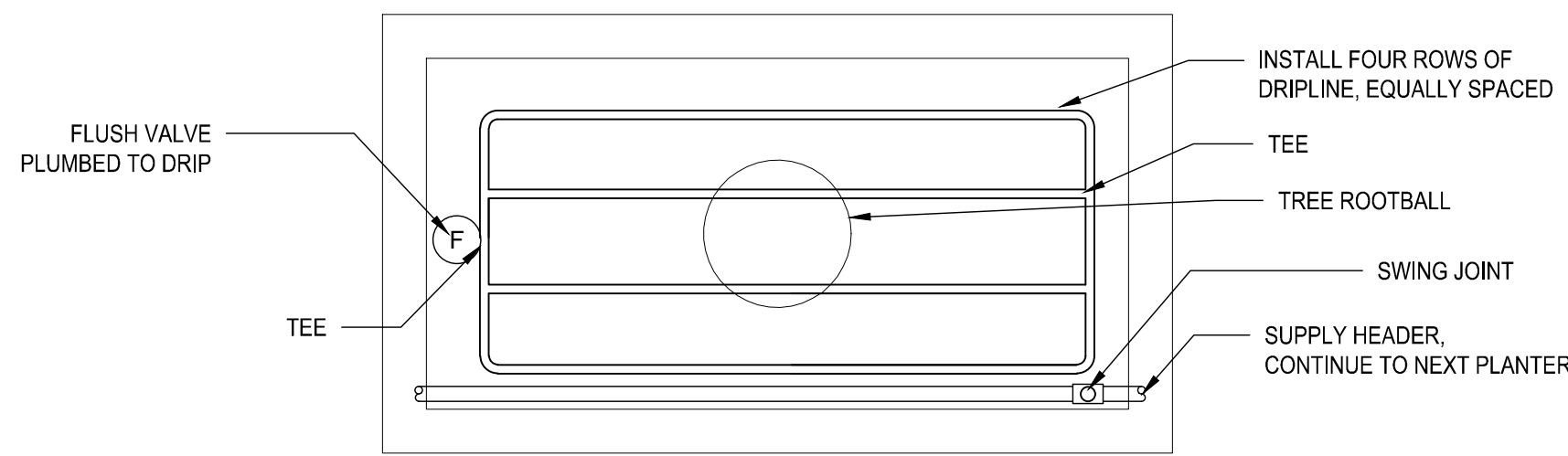
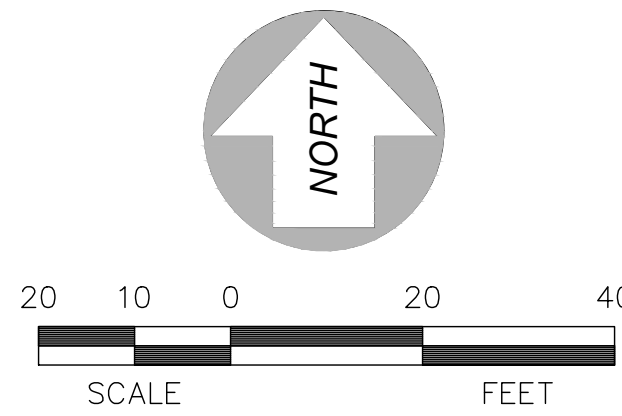
Project No.:	20.134
Date:	9.28.21
Drawn By:	S.M.B.
Checked By:	M.J.L.

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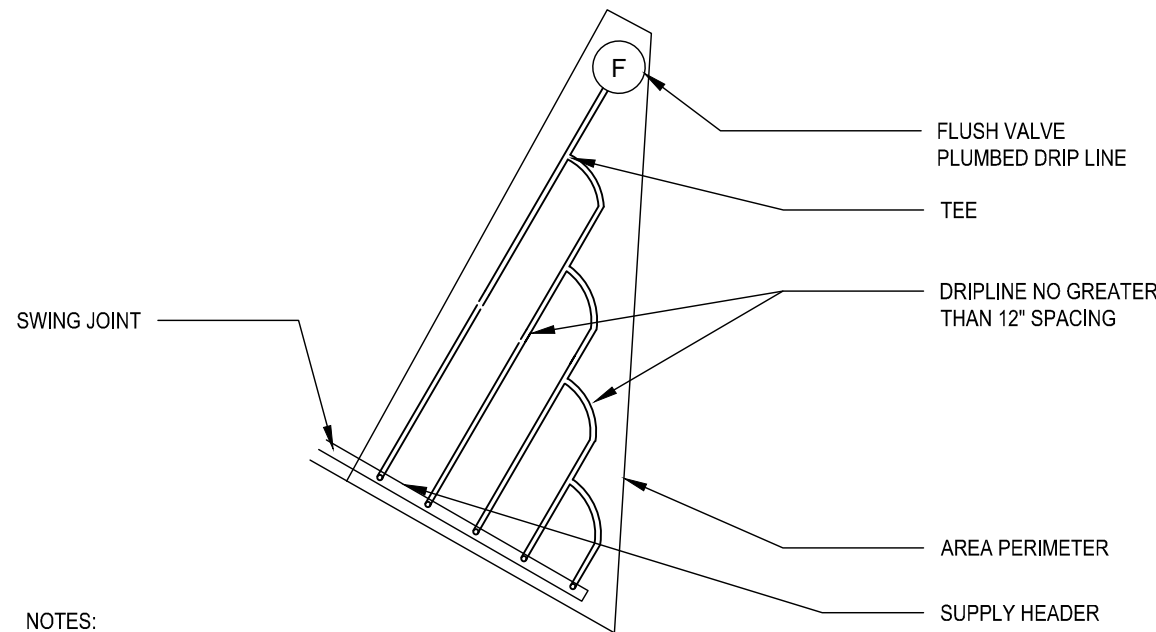


Landscape Irrigation Plan - Overall
1"=20'



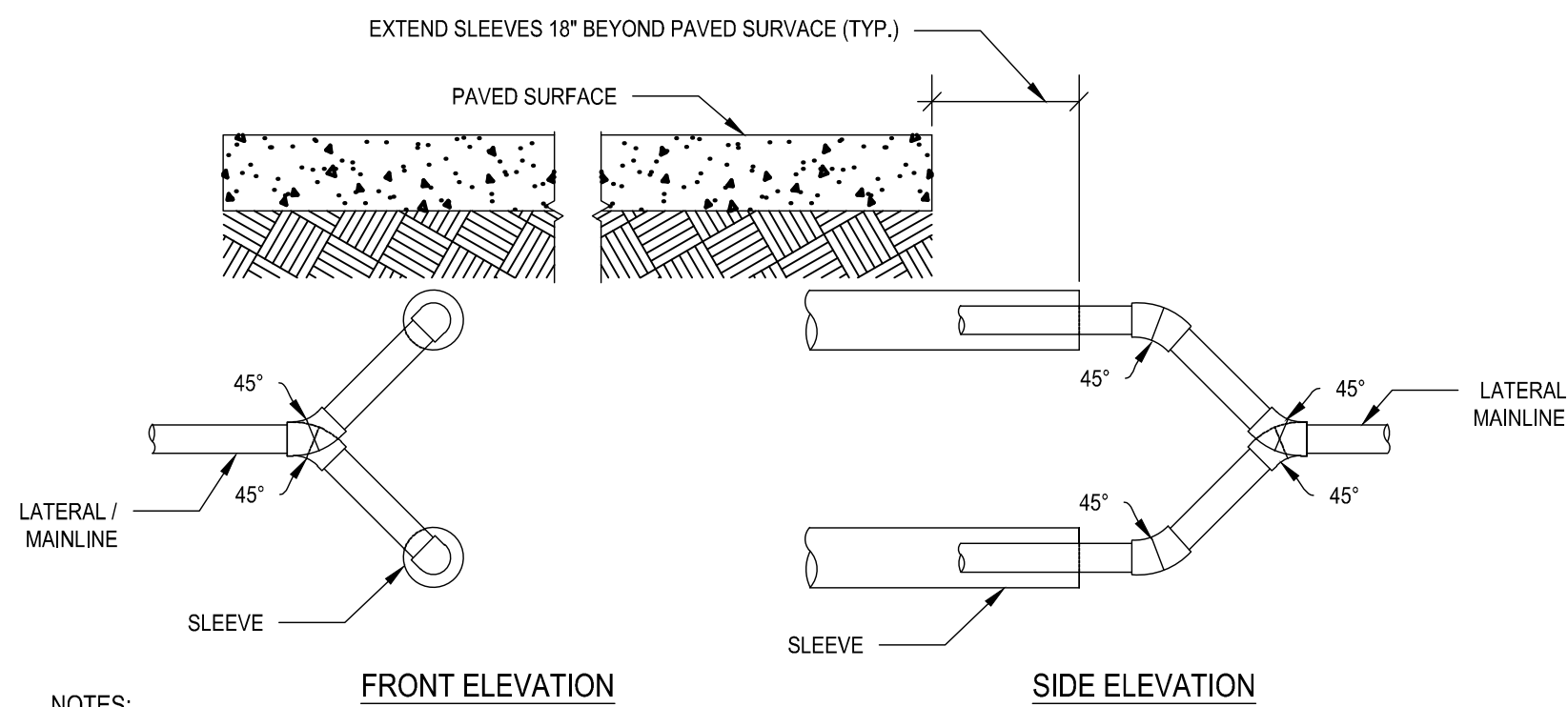
- NOTES:
1. INSTALL STAPLES PER MFR. RECOMMENDATIONS TO ENSURE DRIP LINE DOES NOT BECOME EXPOSED.
 2. SWING JOINT LOCATIONS WILL VARY BASED ON WHERE LATERAL LINE ENTERS PLANTER.

TYPICAL 4'x8' PLANTER IRRIGATION
(NOT TO SCALE)



- NOTES:
1. INSTALL STAPLES TO ENSURE DRIP LINE DOES NOT BECOME EXPOSED.
 2. SWING JOINT LOCATIONS WILL VARY BASED ON WHERE LATERAL LINE ENTERS PLANTER.

TYPICAL IRREGULAR PLANTER IRRIGATION
(NOT TO SCALE)



- NOTES:
1. ALL SLEEVES UNDERNEATH STREETS SHALL BE DUCTILE IRON, SIZES AS INDICATED.
 2. THERE SHALL NOT BE 90° JOINTS DIRECTING LATERALS AND MAINLINES INTO SLEEVES. MAXIMUM ANGLE SHALL BE 45°.
 3. INSTALL SLEEVES 18" DEEP MINIMUM.

IRRIGATION SLEEVES
(NOT TO SCALE)

IRRIGATION PLAN IS
DIAGRAMMATIC ONLY

MAINLINES, LATERALS, AND WIRES SHALL BE PLACED UNDERNEATH THE SIDEWALK. ALL CONTROL VALVES AND OTHER IRRIGATION COMPONENTS SHALL BE PLACED WITHIN PLANTERS.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. TAYLOR ENGINEERING, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, WE DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN EXACT LOCATION INDICATED, ALTHOUGH WE DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.



IRRIGATION SCHEDULE

DRIP	MANUFACTURERE / MODEL/ DESCRIPTION
	FLUSH VALVE - NETAFIM TL5OV MANUAL FLUSH VALVE
	DRIPLINE - NETAFIM TDL-06 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE 0.6 GPH EMITTERS @ 18" SPACING LAYOUT PER PLAN
	AUTOMATIC CONTROL VALVE RAIN BIRD VALVE WITH FLOW CONTROL. SET TO 35 PSI. INSTALL IN STATION "A" WITHIN PLANTING AREA.
POC	IRRIGATION POINT OF CONNECTION INSTALL PER CITY OF SPOKANE STANDARD PLAN NO. Y-111
	IRRIGATION CONTROLLER RAIN BIRD ESP-9V BATTERY-OPERATED CONTROLLER. INSTALL WITHIN VALVE BOX USING SOLENOID MOUNT. ENSURE VALVES ARE COMPATIBLE WITH CONTROLLER.
	VALVE #, ZONE GALLONS PER MINUTE, VALVE SIZE
PIPE	MANUFACTURER / MODEL/ DESCRIPTION
	IRRIGATION MAINLINE: 1" PVC SCHEDULE 40
	IRRIGATION LATERAL LINE: 1" CLASS 200 PVC
<NOT SHOWN>	PIPE SLEEVE: 4" SCHEDULE 40 PVC 4" SLEEVES. INSTALL QUANTITY OF SLEEVES SHALL BE AS NECESSARY TO ENSURE ALL PIPES UNDERNEATH PAVING ARE WITHIN 4" SLEEVES. EXTEND 12" MIN. INTO PLANTER.

GENERAL IRRIGATION NOTES

1. THIS PLAN IS SCHEMATIC ONLY. IT IS INTENTIONALLY GENERAL TO DEPICT THE MATERIALS TO BE USED FOR THE IRRIGATION INSTALLATION. ADJUST THE DESIGN AND INSTALLATION TO FIT FIELD CONDITIONS.
2. ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH THIS TYPE OF WORK AND UNDER THE SUPERVISION OF A FOREMAN FAMILIAR WITH THIS TYPE OF WORK. THE FOREMAN SHALL REMAIN ON-SITE DURING ALL LANDSCAPE IRRIGATION INSTALLATIONS.
3. COMPLY WITH ALL LOCAL CODES AND ORDINANCES.
4. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING OPERATIONS.
5. INSTALL IRRIGATION SYSTEM PER DESIGN AND THEN ADJUST IRRIGATION HEAD LAYOUT TO FIT FIELD CONDITIONS, AS NECESSARY.
6. IRRIGATION PLAN IS DIAGRAMMATIC ONLY. MAINLINES, LATERALS, AND WIRES SHALL BE INSTALLED TO CONNECT PLANTERS.
7. 4" PVC SCHEDULE 40 SLEEVES SHALL BE INSTALLED BETWEEN PLANTERS, PER DETAILS. INSTALL ONE SLEEVE FOR EACH PIPE.
6. COORDINATE INSTALLATION/OPERATION OF IRRIGATION SYSTEM WITH OTHER TRADES.
7. PIPE LINES SHALL BE PLACED SO THAT DESCRIPTIONS FACE UP.
8. VERIFY 'WORKING' PSI AT MAXIMUM OPERATING FLOW PRIOR TO CONSTRUCTION OF SYSTEM AND NOTIFY OWNER'S REPRESENTATIVE OF ANY DEFICIENCY. (±80 PSI REPORTED)
9. USE KBI VALVE OR IN HEAD CHECK VALVES TO PREVENT LOW HEAD DRAINAGE WHERE IT OCCURS.
10. "AS-BUILT" RECORD DRAWINGS SHALL BE SIGNED BY THE INSTALLER AND DELIVERED TO OWNER PRIOR TO FINAL PAYMENT.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PERMITTING AND INSTALLING POINT OF CONNECTION AND ELECTRICAL.

Revisions:



LANDSCAPE IRRIGATION PLAN

PERMIT REVIEW DRAWING (9-28-21)

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