

SPOKANE TRANSIT AUTHORITY BOONE PARKING LOT ADDITION

PROJECT # 17-STA-575

Contact Information:

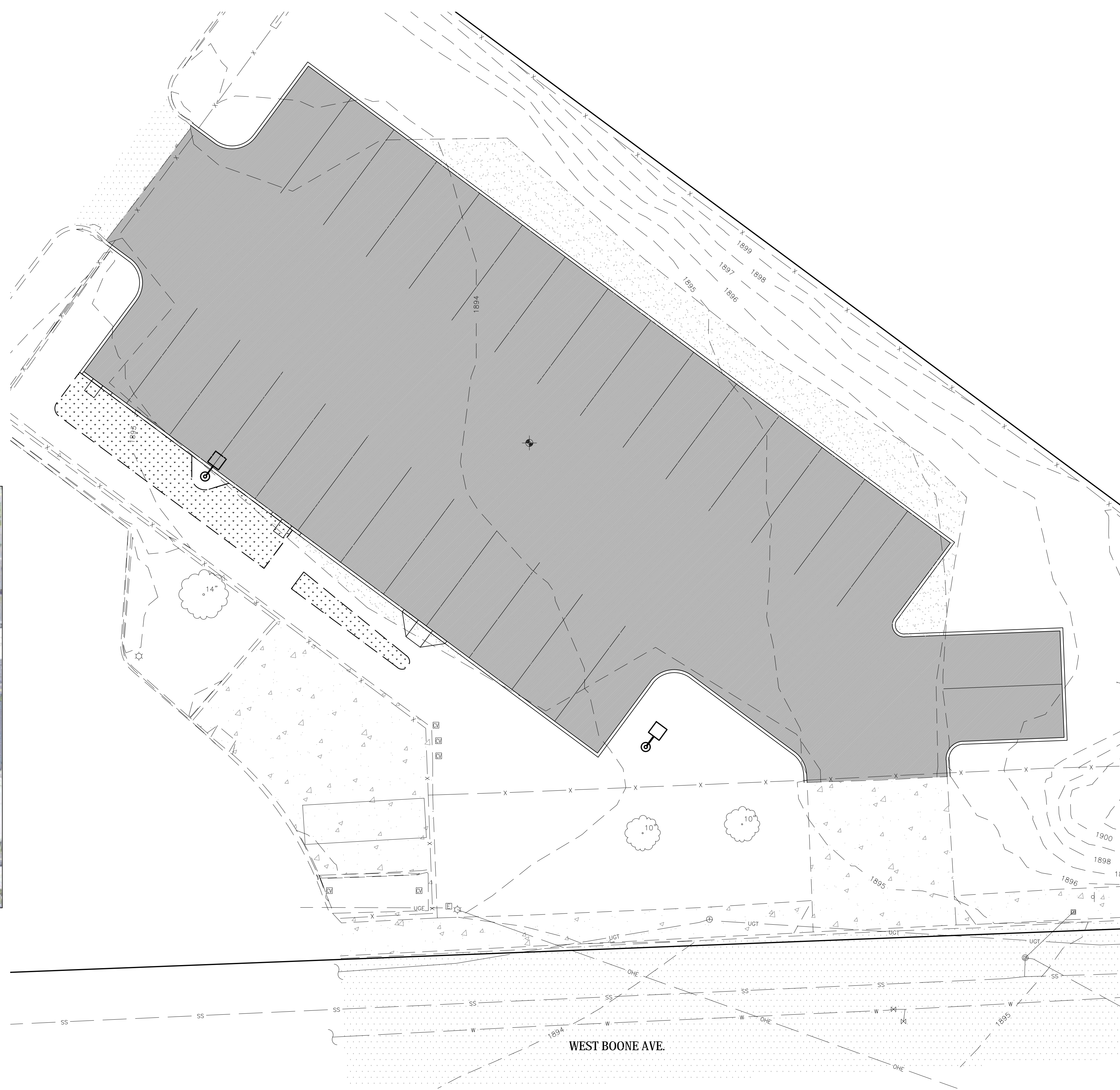
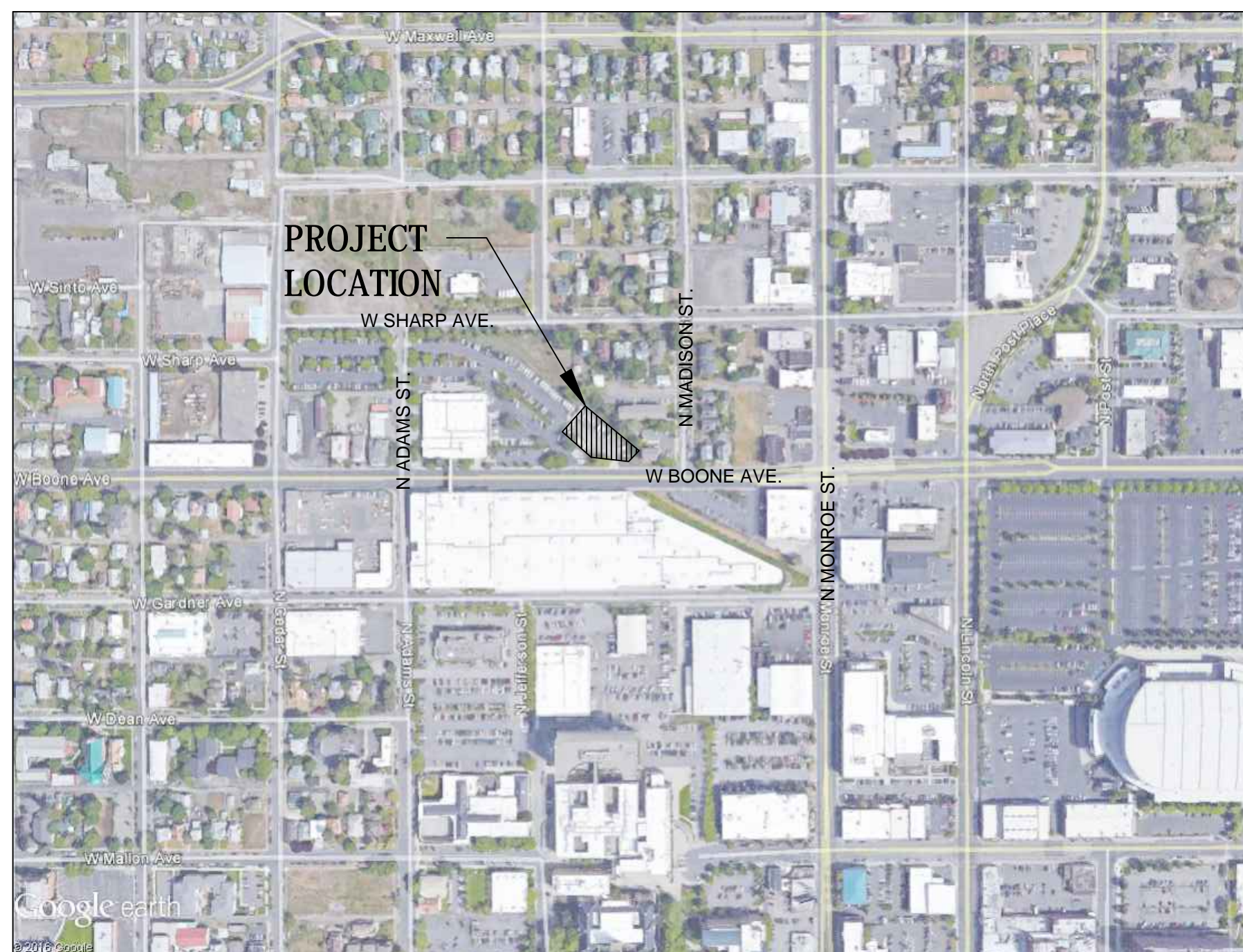
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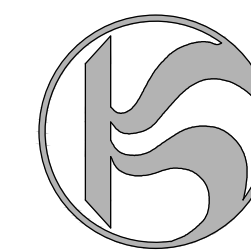
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COVER SHEET

STA BOONE PARKING
LOT ADDITION
Spokane, Washington

SHEET TITLE

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201



CLIENT INFORMATION

REVISIONS

No.	Date	By

PROJ. NO. 17-STA-575

DRAWN CWD

CHECKED CBM

DATE 05/24/17

G-100

SHEET

GENERAL NOTES

1. WORK AND MATERIALS SHALL COMPLY WITH THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS AND STANDARDS OF THE AUTHORITIES HAVING JURISDICTION. IF STANDARDS ARE NOT PROVIDED BY THE AUTHORITIES HAVING JURISDICTION, WORK AND MATERIALS SHALL COMPLY WITH THE MOST CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS JOINTLY PROMULGATED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE WASHINGTON STATE CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION.
2. THE CONTRACTOR SHALL CALL THE UNDERGROUND SERVICE ALERT ONE-CALL NUMBER 811 TWO BUSINESS DAYS PRIOR TO EXCAVATION.
3. INFORMATION ON EXISTING CONDITIONS AND BOUNDARIES / RIGHT OF WAY SHOWN ON THESE PLANS WAS OBTAINED FROM A SURVEY PERFORMED BY COFFMAN ENGINEERS. NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND REQUIRED ELEVATIONS AT THE SUBJECT SITE. VERIFY THE LOCATION AND SIZE OF EXISTING UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION ACTIVITIES, INCLUDING UNDERGROUND AND OVERHEAD UTILITIES, UTILITY STRUCTURES, POINTS OF CONNECTION, AND UTILITY CROSSINGS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR EXCEPTIONS ENCOUNTERED PRIOR TO PROCEEDING. ANY COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL HAVE A COMPLETE SET OF APPROVED CONSTRUCTION DOCUMENTS (INCLUDING ADDENDA) ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
5. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET THE REQUIREMENTS AND STANDARDS OF THE AUTHORITIES HAVING JURISDICTION.
6. THE DRAWINGS INDICATE LOCATIONS, DIMENSIONS, REFERENCES, AND TYPICAL DETAILS OF CONSTRUCTION. THE DRAWINGS DO NOT INDICATE EVERY CONDITION. WORK NOT FULLY DETAILED SHALL BE OF CONSTRUCTION SIMILAR TO PARTS THAT ARE FULLY DETAILED.
7. THE CONTRACTOR SHALL OBTAIN THE APPROPRIATE APPROVALS AND PERMITS FROM THE AUTHORITIES HAVING JURISDICTION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE WITH THE AUTHORITIES HAVING JURISDICTION TO CONFIRM INSPECTION, TESTING, AND CERTIFICATION REQUIREMENTS.
8. CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).
9. EXISTING PROPERTY CORNERS AND SURVEY MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGED OR OBLITERATED CORNERS OR MONUMENTS SHALL BE RE-ESTABLISHED BY A PROFESSIONAL SURVEYOR AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS. THE CONTRACTOR SHALL COORDINATE GENERAL CONSTRUCTION ACTIVITIES AND TRAFFIC CONTROL WITH COMMUNITY COLLEGES OF SPOKANE CAPITOL PROJECTS MANAGER/COORDINATOR.
11. SAFETY STANDARDS AND REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COMPLIED WITH AS SET FORTH BY OSHA.
12. THE CONTRACTOR SHALL HAVE THE APPROPRIATE LICENSES TO PERFORM THE SPECIFIED WORK IN CONFORMANCE WITH THE AUTHORITIES HAVING JURISDICTION.
13. RECORD DRAWINGS IDENTIFYING AND ACCURATELY LOCATING SUBSURFACE UTILITIES AND IMPROVEMENTS AND NOTING AS-CONSTRUCTED CONDITIONS SHALL BE PROVIDED BY THE CONTRACTOR AT THE END OF CONSTRUCTION.

EROSION & SEDIMENT CONTROL NOTES

1. THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED AS A GUIDELINE IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
 - a) CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROL (ESC) BEST MANAGEMENT PRACTICE MEASURES (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 SUBJECT SITE;
 - f) TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPs, SUBJECT SITE IN SITUATIONS WHERE SUBSTANTIAL CUT OR 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:
 - i. PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;
 - ii. ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION PROBLEMS HAVE CEASED; AND
 - iii. 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, AT THE END OF EACH DAY, ADJACENT TO THE CONSTRUCTION ACCESS ROUTE. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED OFF SITE AND/OR BEYOND THE ROADWAY APPROACH, CLEANING IS REQUIRED.
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. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.
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. DO NOT USE WATER WHEN IT MAY DAMAGE ADJACENT CONSTRUCTION OR CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS, SUCH AS ICE, FLOODING, AND POLLUTION.
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.
11. KEEP ROADS ADJACENT TO 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 THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS.
14. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ON SITE, KEEPING OFF OF ROADWAY AND SIDEWALKS.
15. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NONINERT 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 FERTILIZERS 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 STORM 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. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES, ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY, INCLUDING OBTAINING THE APPROPRIATE PERMITS AND APPROVALS.
21. EROSION CONTROL MEASURES IN ADDITION TO THOSE INDICATED AS PART OF THIS PLAN MAY BE REQUIRED DUE TO UNFORESEEN CONDITIONS, IF THE MEASURES DO NOT FUNCTION AS INTENDED, OR IF THE AUTHORITIES HAVING JURISDICTION DETERMINE INDICATED MEASURES ARE INADEQUATE.
22. FILTER FENCE SHALL BE USED TO AID IN CONTAINING ANY SEDIMENT ON THE SITE DURING CONSTRUCTION. STABILIZED CONSTRUCTION ENTRANCES SHALL BE USED AT POINTS OF INGRESS AND EGRESS FOR CONSTRUCTION VEHICLES. STORM DRAIN INLET PROTECTION SHALL BE USED ON ALL STORM DRAIN STRUCTURES, INCLUDING CATCH BASINS AND DRYWELLS. THE CONTRACTOR SHALL KEEP THE AREAS ADJACENT TO THE SITE INCLUDING ROADWAYS AND PARKING LOTS FREE FROM DEBRIS. REFER TO THE EROSION AND SEDIMENT CONTROL MEASURE DETAILS FOR ADDITIONAL INFORMATION.
23. 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. HARDENED CONCRETE WASHOUT SHALL BE BROKEN UP AND REMOVED FROM THE SITE.
24. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

DEMOLITION NOTES

1. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING ADJACENT OCCUPIED OR OPERATING FACILITIES UNLESS AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER AND AUTHORITIES HAVING JURISDICTION.
2. COORDINATE DEMOLITION OPERATIONS AND ANY REQUIRED UTILITY RELOCATIONS WITH THE OWNER AND APPROPRIATE UTILITY PURVEYOR, INCLUDING REQUIREMENTS AND SCHEDULING.
3. COORDINATE EXTENT OF DEMOLITION WITH PROPOSED IMPROVEMENTS. CONTRACTOR SHALL REVIEW THE PROJECT LIMITS TO DETERMINE THE QUANTITY AND TYPE OF DEMOLITION WASTE MATERIAL AND DEBRIS TO BE INCLUDED IN THEIR BID. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING, AND RELOCATING IF NECESSARY, ANY ITEMS NOT OTHERWISE NOTED THAT CONFLICT WITH THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTING ITEMS NOT SHOWN ON THE PLANS THAT MUST BE REMOVED OR RELOCATED. FAILURE TO NOTIFY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF COST RESPONSIBILITY FOR REMOVING REQUIRED ITEMS.
4. COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
5. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER AND OWNER.
6. CONDUCT DEMOLITION ACTIVITIES AND DEBRIS REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, WALKWAYS, AND OTHER ADJACENT FACILITIES.
7. REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REMOVAL OF TREES AND SHRUBS WITHIN AREA OF NEW CONSTRUCTION SHALL INCLUDE DIGGING OUT STUMPS AND OBSTRUCTIONS AND GRUBBING ROOTS. REMOVAL OF TREES IN AREAS ADJACENT TO TREES THAT ARE TO REMAIN AND BE PROTECTED SHALL INCLUDE TREE REMOVAL AND GRINDING OF STUMP TO 3" BELOW FINISHED GRADE. STUMP AND ROOT REMOVAL IS NOT ALLOWED IN THESE AREAS TO PRESERVE HEALTH OF ADJACENT TREES.
8. AREAS DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE CONSTRUCTED OR RESTORED TO ORIGINAL CONDITIONS OR BETTER, TO THE SATISFACTION OF THE OWNER, AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND ANY DAMAGE THAT MAY OCCUR.
9. REMOVE DEMOLITION WASTE MATERIALS AND DEBRIS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

EARTHWORK & GRADING NOTES

1. SITE PREPARATION, GRADING, EXCAVATION AND FILL REQUIREMENTS BELOW THE PROPOSED IMPROVEMENTS, EMBANKMENTS, AND UTILITY TRENCHING SHALL BE COMPLETED IN CONFORMANCE WITH WSDOT STANDARD SPECIFICATIONS AND THE GEOTECHNICAL ENGINEERING EVALUATION FOR THE SUBJECT SITE.
2. EXAMINE EXPOSED SUBGRADES AND BASE SURFACES FOR COMPLIANCE WITH REQUIREMENTS FOR DIMENSIONAL, GRADING, AND ELEVATION TOLERANCES. PREVENT SURFACE WATER AND GROUNDWATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES AND BASE SURFACES, AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA. PROTECT SUBGRADES AND BASE SURFACES FROM SOFTENING, UNDERMINING, WASHOUT, DAMAGE BY RAIN OR WATER ACCUMULATION, AND AGAINST FREEZING TEMPERATURES AND FROST.
3. REFER TO LANDSCAPE DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING BERM ELEVATIONS, LANDSCAPE GRADING, LANDSCAPE DRAINS, PLACEMENT OF TOPSOIL, AND COORDINATION BETWEEN LANDSCAPING AND STORM WATER MANAGEMENT IMPROVEMENTS.
4. SPOT ELEVATIONS ARE FOR FINISH GRADE UNLESS OTHERWISE NOTED.
5. UNLESS ELEVATIONS AND/OR CONTOURS ARE OTHERWISE SHOWN, NEW FINISH GRADE SURFACES SHALL BE PLACED TO ALLOW FOR POSITIVE DRAINAGE TO RUNOFF COLLECTION DEVICES OR FACILITIES. MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS. IF FIELD GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
6. GROUNDWATER OR UNANTICIPATED SUBSURFACE CONDITIONS SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER FOR ASSESSMENT AND RECOMMENDATIONS.
7. COMPACTION EFFORTS AND MASS GRADING SHALL BE MONITORED AND TESTED BY AN EXPERIENCED SOILS TECHNICIAN, UNDER THE SUPERVISION OF A LICENSED GEOTECHNICAL ENGINEER HIRED BY THE CONTRACTOR. GEOTECHNICAL ENGINEER SHALL MAKE ALL REPORTING AND TESTING RESULTS AVAILABLE TO THE OWNER. TESTING FREQUENCY SHALL BE PER SPOKANE COUNTY ROAD STANDARDS, LATEST EDITION.
8. UNLINED STORM WATER MANAGEMENT POND AND BIO-INFILTRATION SWALE BOTTOMS ARE EXPECTED TO INFILTRATE VIA THE FINISH GRADE SURFACE, AND THEREFORE, SHALL NOT BE HEAVILY COMPACTED; EQUIPMENT TRAFFIC SHALL BE MINIMIZED ON THE POND OR SWALE BOTTOMS. THE FACILITY SUB-GRADE SHALL BE A MEDIUM- TO WELL- DRAINING MATERIAL, WITH A MINIMUM THICKNESS OF 48 INCHES AND A MINIMUM INFILTRATION RATE OF 0.15 INCHES PER HOUR. THE FACILITY SHALL DRAIN WITHIN 72 HOURS OF A STORM EVENT. IF THE POND OR SWALE ALSO SERVES AS A WATER QUALITY TREATMENT FACILITY, THE TREATMENT ZONE (SOD AND 6 INCHES OF TREATMENT SOIL) SHALL BE A MEDIUM- TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.25 TO 0.50 INCHES PER HOUR. SCARIFY THE FINISH GRADE OF THE POND OR SWALE BOTTOM PRIOR TO HYDROSEEDING OR SODDING. TESTING THAT VERIFIES SUBGRADE MINIMUM INFILTRATION RATE MAY BE REQUIRED BY THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION CERTIFICATION TO ENSURE ADEQUATE DRAINAGE. INFILTRATIVE TESTING OF THE TREATMENT ZONE MAY BE REQUIRED BY THE LOCAL JURISDICTION IF SOILS OTHER THAN SILTY LOAM OR LOAMY SOILS ARE PROPOSED. IF DURING FINAL INSPECTION, IT IS FOUND THAT THE CONSTRUCTED POND OR SWALE DOES NOT CONFORM TO THE ACCEPTED DESIGN, THE SYSTEM SHALL BE RECONSTRUCTED SO THAT IT DOES COMPLY.

PAVING NOTES

1. DO NOT APPLY PAVEMENT MATERIALS IF SUBGRADE IS WET OR EXCESSIVELY DAMP, OR IF RAIN IS IMMINENT OR EXPECTED BEFORE TIME REQUIRED FOR ADEQUATE CURE. SURFACE AND AIR TEMPERATURES SHALL CONFORM TO REQUIREMENTS OF WSDOT STANDARD SPECIFICATIONS.
2. COMPLY WITH WSDOT STANDARD SPECIFICATION 5-04 FOR HOT MIX ASPHALT PAVEMENT.
3. WHERE NEW ASPHALT PAVEMENT JOINS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAWCUT TO A NEAT, VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION IN ACCORDANCE WITH WSDOT SPECIFICATIONS.
4. COMPLY WITH WSDOT STANDARD SPECIFICATION 5-05 AND ACI 301 REQUIREMENTS FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CEMENT CONCRETE PAVEMENT.
5. APPLY PAVEMENT MARKING MATERIALS TO CLEAN, DRY PAVEMENT SURFACES ACCORDING TO WSDOT STANDARD SPECIFICATION 8-22. PAVEMENT MARKINGS SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
6. CONSTRUCTION STAKING FOR CURB AND GUTTER, PAVEMENT GRADES, SIDEWALK GRADES, AND ANY OTHER VERTICAL AND/OR HORIZONTAL ALIGNMENT SHALL BE PROVIDED BY A SURVEYING OR ENGINEERING FIRM CAPABLE OF PERFORMING SUCH WORK.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A WASH OUT AREA FOR CONCRETE TRUCKS AND EQUIPMENT. THIS AREA SHALL NOT BE LOCATED NEAR OR DRAINING INTO A STORM DRAINAGE AREA, TREATMENT AREA, OR FACILITY.



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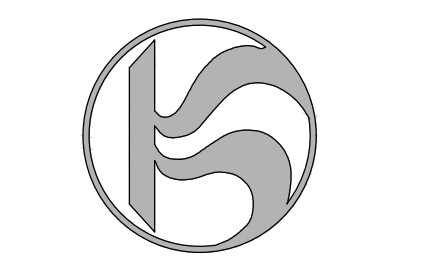
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GENERAL NOTES

STA BOONE PARKING LOT ADDITION
Spokane, Washington

SHEET TITLE PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201



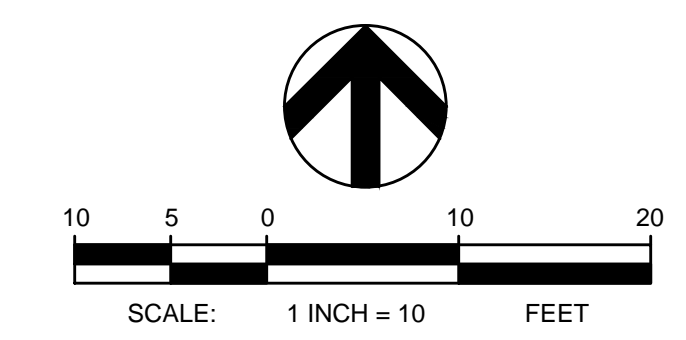
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PROJ. NO.	17-STA-575
DRAWN	CWD
CHECKED	CBM
DATE	05/24/17

C-101

SHEET

S. 18, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	262200.84	2478953.63	1895.13	FND MAG
7	262335.12	2478904.70	1894.16	FND MAG
8	262491.69	2478670.91	1892.29	SET MAG

TBM 6 AND 8 NOT SHOWN ON PLAN VIEW

LEGEND



NOTES

- REFER TO SHEET C-101 FOR EROSION AND SEDIMENT CONTROL AND ADDITIONAL NOTES.



UTILITY STATEMENT
 LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.



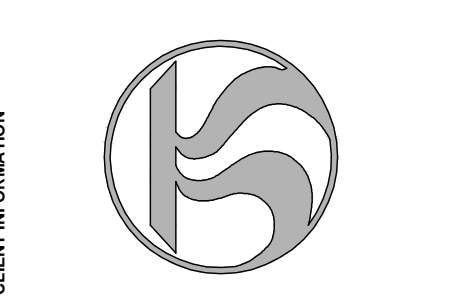
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 PROJECT NAME & ADDRESS

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 1230 W. Boone Avenue, Spokane, Washington 99201



CLIENT INFORMATION

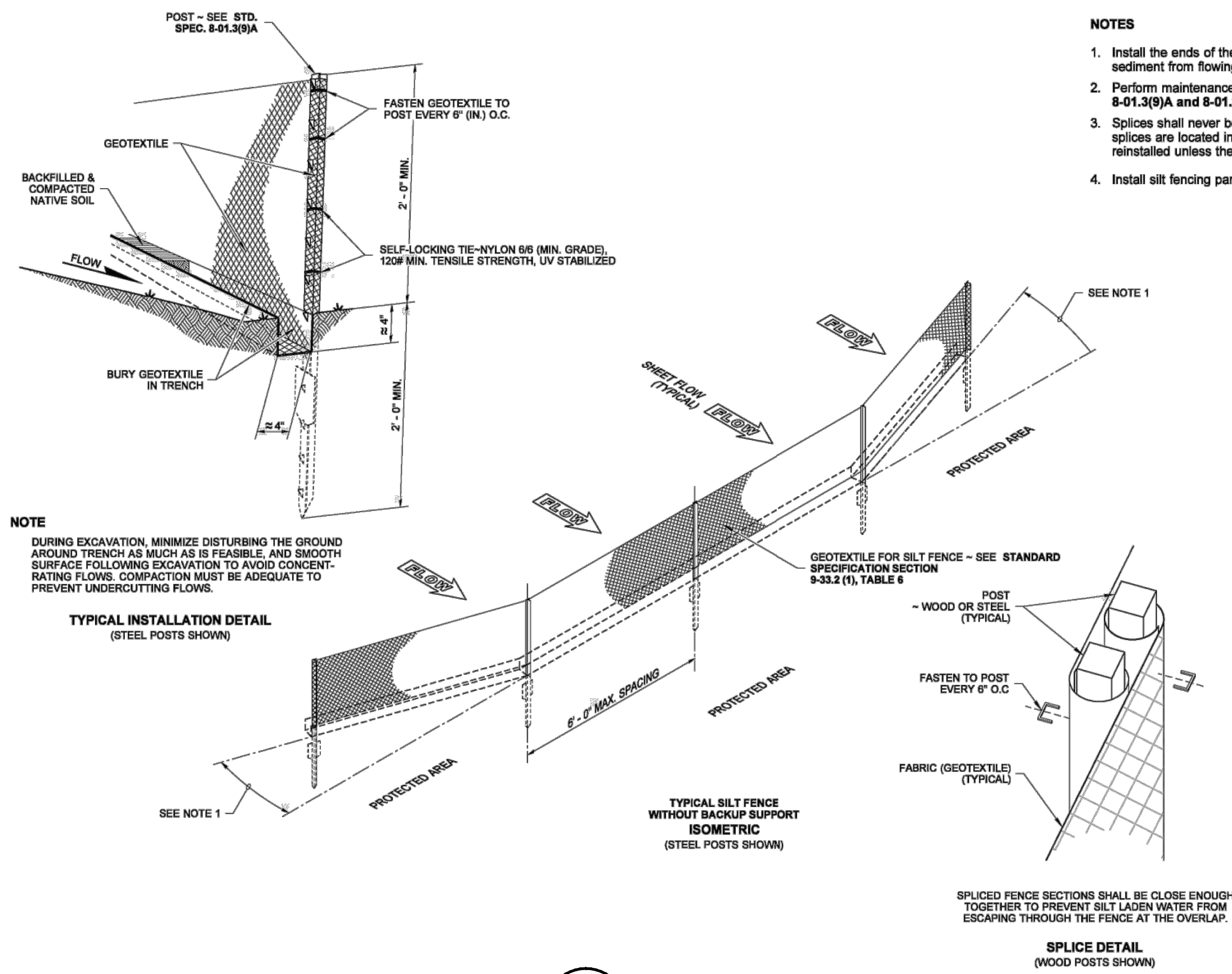
REVISIONS		
No.	Date	By

PROJ. NO. 17-STA-575
 DRAWN CWJ
 CHECKED CBM
 DATE 05/24/17

C-201
 SHEET

S. 18, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON

DRAWN BY: BILL BERENS



- NOTES**
1. Install the ends of the silt fence to point slightly uplope to prevent sediment from flowing around the ends of the fence.
 2. Perform maintenance in accordance with **Standard Specifications 8-01.3(9)A and 8-01.3(15)**.
 3. Splices shall never be placed in low spots or sump locations. If splices are located in low or sump areas, the fence may need to be reinstalled unless the Project Engineer approves the installation.
 4. Install silt fencing parallel to mapped contour lines.

NOTE
DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

TYPICAL INSTALLATION DETAIL
(STEEL POSTS SHOWN)

TYPICAL SILT FENCE WITHOUT BACKUP SUPPORT ISOMETRIC
(STEEL POSTS SHOWN)

SPLICE DETAIL
(WOOD POSTS SHOWN)



STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
SANDRA L. SALISBURY
CERTIFICATE NO. 000880

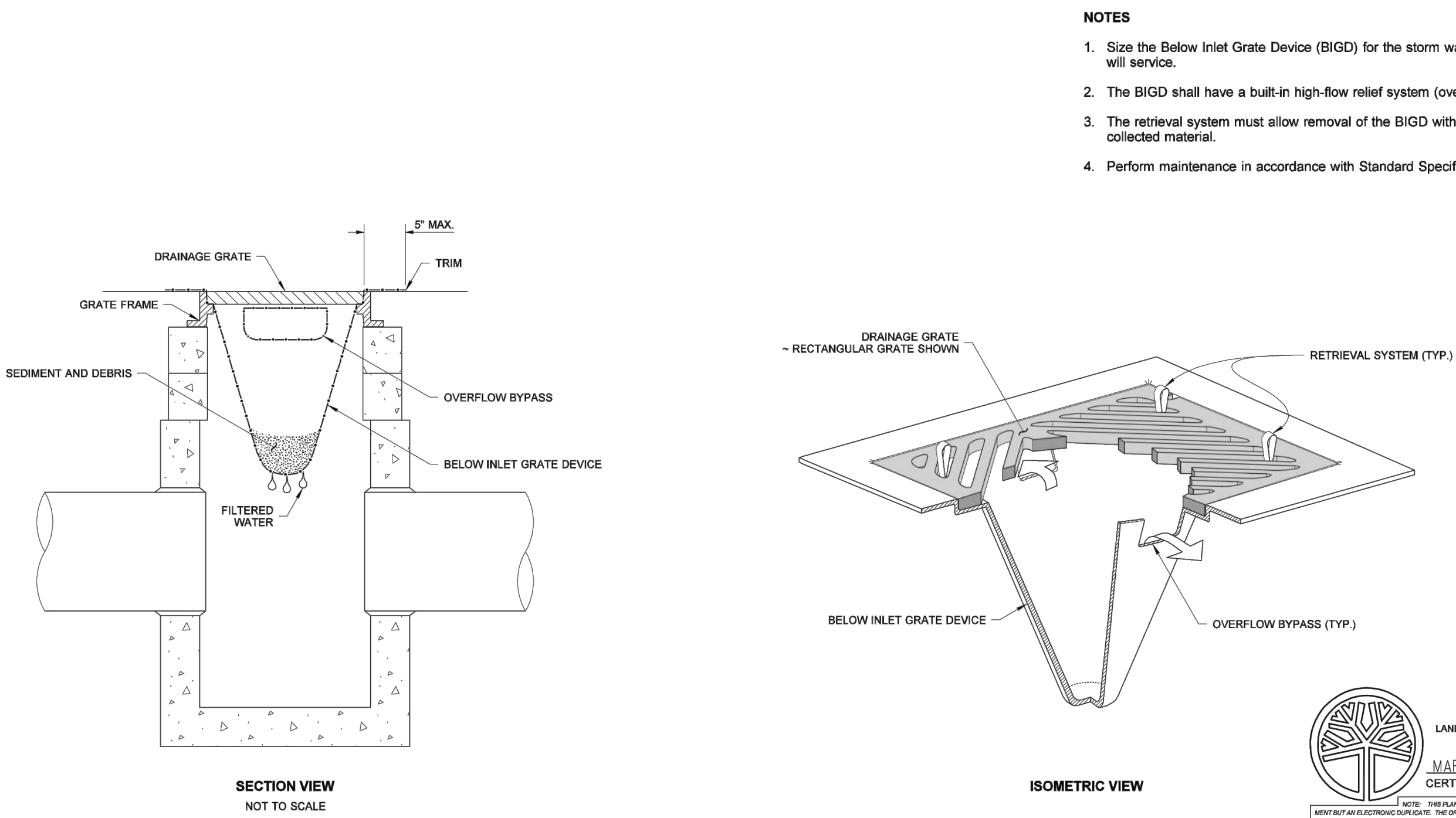
SILT FENCE

STANDARD PLAN I-30.15-02
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Pasco Bakotich III 3/22/13
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

1 SILT FENCE
SCALE: NTS

DRAWN BY: LISA CYFORD



- NOTES**
1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
 2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
 3. The retrieval system must allow removal of the BIGD without spilling the collected material.
 4. Perform maintenance in accordance with Standard Specification 8-01.3(15).

SECTION VIEW
NOT TO SCALE

ISOMETRIC VIEW



STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
MARK W. MAURER
CERTIFICATE NO. 000598

STORM DRAIN INLET PROTECTION

STANDARD PLAN I-40.20-00
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Pasco Bakotich III 09-20-07
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

2 STORM DRAIN INLET PROTECTION
SCALE: NTS

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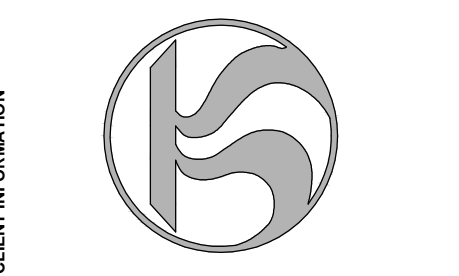


STAMP

EROSION AND SEDIMENT CONTROL DETAILS

STA BOONE PARKING LOT ADDITION
Spokane, Washington

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201

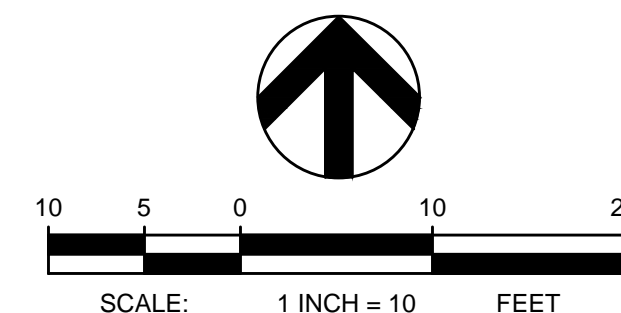


REVISIONS		
No.	Date	By

PROJ. NO. 17-STA-575
DRAWN CWD
CHECKED CBM
DATE 05/24/17

C-202
SHEET

S. 18, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



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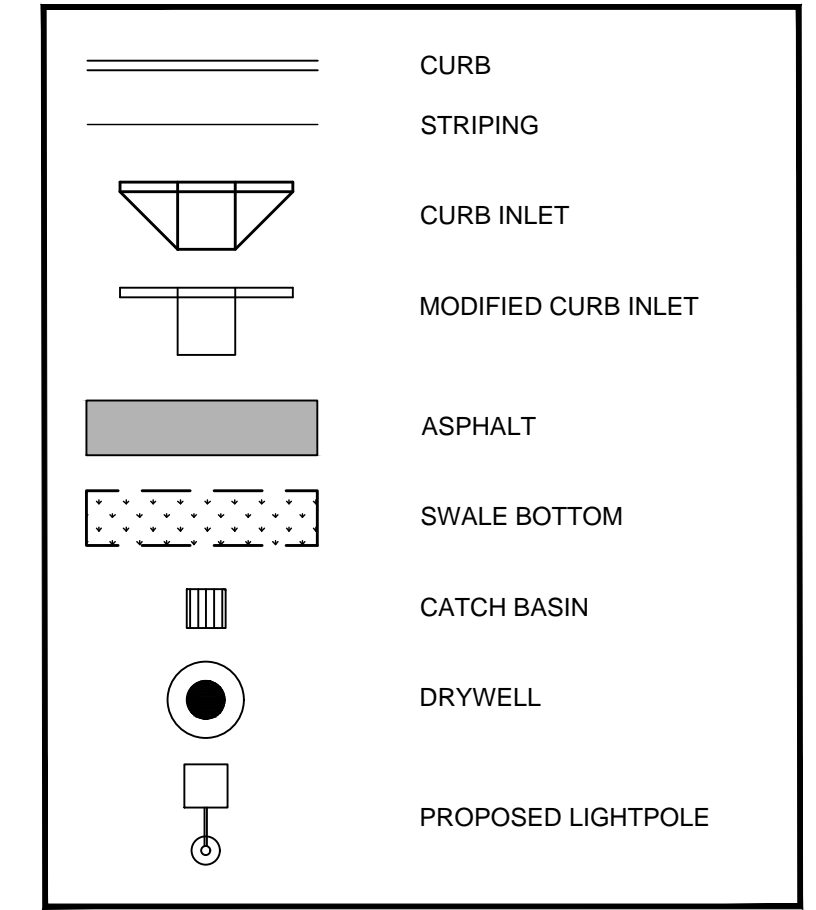
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TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	262200.84	2478953.63	1895.13	FND MAG
7	262335.12	2478904.70	1894.16	FND MAG
8	262491.69	2478670.91	1892.29	SET MAG

TBM 6 AND 8 NOT SHOWN ON PLAN VIEW

LEGEND



PARKING COUNT

REGULAR STALLS = 29

NOTES

- REFER TO SHEET C-101 FOR GENERAL NOTES.
- REFER TO SHEET C-401 FOR INFORMATION REGARDING STORM WATER MANAGEMENT.
- SEE DETAIL 1, SHEET C-501 FOR ASPHALT SECTION.
- CONCRETE CURB SHALL COMPLY WITH CITY OF SPOKANE STANDARD PLAN NO. F-106.
- DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. RADII FOR CURBING SHALL BE 5' IF NOT SHOWN.
- A 12" NOSE-DOWN SHALL BE PROVIDED AT ENDS OF CURBING, EXCEPT WHEN MATCHING TO EXISTING CURB OR BUILDING LINE.
- REFER TO LANDSCAPING PLANS FOR ADDITIONAL INFORMATION REGARDING LANDSCAPE SURFACING.
- REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION REGARDING SITE LIGHTING.
- PARKING LOT PAVEMENT MARKINGS SHALL BE TRAFFIC YELLOW UNLESS OTHERWISE NOTED.
- SEE DETAIL 6, SHEET C-501 FOR CURB WALL.
- SEE DETAIL 5, SHEET C-501 FOR MODIFIED CURB INLET.
- CURB DROP INLET SHALL COMPLY WITH CITY OF SPOKANE STANDARD PLAN F-110.
- CONTRACTOR TO TRANSITION FROM CURB WALL TO CONCRETE CURB. APPROXIMATELY 3.25' FROM BOTTOM OF SWALE.
- CONTRACTOR TO TRANSITION FROM CURB WALL TO CONCRETE CURB APPROXIMATELY 3.75' FROM 90° BEND.
- SEE DETAIL 7, SHEET C-502 FOR IMPROVEMENTS TO ACCESSIBLE PARKING STRIPING FOR 1230 W BOONE AVE (NOT PART OF BID).

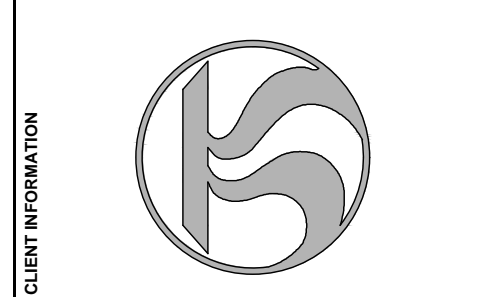
UTILITY STATEMENT
 LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.



STAMP

SITE PLAN
STA BOONE PARKING LOT ADDITION
 Spokane, Washington

Spokane Transit Authority
 1230 W. Boone Avenue, Spokane, Washington 99201



CLIENT INFORMATION

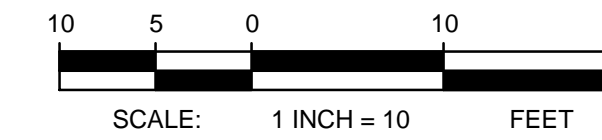
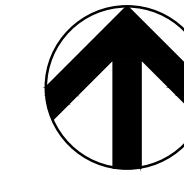
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No.	Date	By

PROJ. NO. 17-STA-575
 DRAWN CWD
 CHECKED CBM
 DATE 05/24/17

C-301



S. 18, T.25N., R.43E., W.M., CITY OF SPOKANE, SPOKANE COUNTY, WASHINGTON



TBM INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	262200.84	2478953.63	1895.13	FND MAG
7	262335.12	2478904.70	1894.16	FND MAG
8	262491.69	2478670.91	1892.29	SET MAG

TBM 6 AND 8 NOT SHOWN ON PLAN VIEW

LEGEND

	CURB
	STRIPING
	CONTOUR
	ASPHALT
	SWALE BOTTOM
	SPOT ELEVATION
	EXISTING SPOT ELEVATION

ABBREVIATIONS

FG FINISHED GROUND
 TP TOP OF PAVEMENT
 TC TOP OF CURB
 BOS BOTTOM OF SWALE
 R RADIUS
 TOB TOP OF BERM

NOTES

- REFER TO SHEET C-101 FOR GENERAL NOTES.
- REFER TO C-301 FOR HORIZONTAL CONTROL.
- REFER TO LANDSCAPING PLANS FOR ADDITIONAL INFORMATION REGARDING LANDSCAPE SURFACING.
- REFER TO THE GEOTECHNICAL INVESTIGATION ASSOCIATED WITH THE SUBJECT SITE FOR ADDITIONAL INFORMATION REGARDING SUBSURFACE CONDITION, SITE STRIPPING, EXCAVATION, GRADING, AND SUBGRADE PREPARATION GEOTECHNICAL ENGINEERING EVALUATION.
- BIO-INFILTRATION SWALE WITH CATCH BASIN SHALL COMPLY WITH CITY OF SPOKANE STANDARD DETAIL B-102F AND DETAILS 2 AND 3, SHEET C-501.
- SINGLE DEPTH DRYWELL SHALL COMPLY WITH CITY OF SPOKANE STANDARD PLAN B-102C. DRYWELL SOLID LID SHALL COMPLY WITH CITY OF SPOKANE STANDARD PLAN B-112.
- CATCH BASIN SHALL COMPLY WITH WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD PLAN B-5-20-01.
- STORMWATER FACILITIES, INCLUDING DRYWELLS, CATCH BASINS, PIPES, AND INFILTRATION GALLERIES, MUST BE CONSTRUCTED UNDER THE SUPERVISION OF THE CITY OF SPOKANE WASTEWATER MANAGEMENT DIVISION. STORMWATER TREATMENT FACILITIES (208 SWALES) SHALL BE INSPECTED PRIOR TO PLACEMENT OF TOP SOIL, 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.
- STORM DRAIN PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE), TYPE S, WITH SMOOTH WATERWAY FOR COUPLING JOINTS, AASHTO M 252M FOR PIPES WITH DIAMETERS 10 INCHES AND SMALLER.
- TRANSITION GRADING FROM BOTTOM OF SWALE ELEVATION TO TOP OF CURB ELEVATION.
- CONTRACTOR SHALL ADD 6" BERM AROUND BASE OF LIGHT POLE. SIDE SLOPE SHALL BE 3:1.



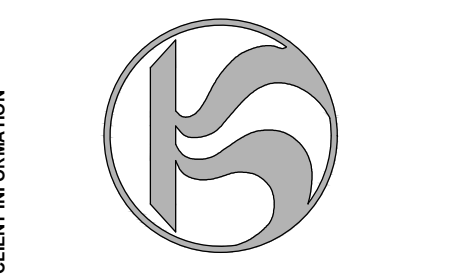
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THOMAS L. ARNOLD
 STATE OF WASHINGTON
 REGISTERED PROFESSIONAL ENGINEER
 No. 28419
 1919

STAMP
GRADING AND DRAINAGE PLAN
STA BOONE PARKING LOT ADDITION
 Spokane, Washington

CLIENT INFORMATION
Spokane Transit Authority
 1230 W. Boone Avenue, Spokane, Washington 99201



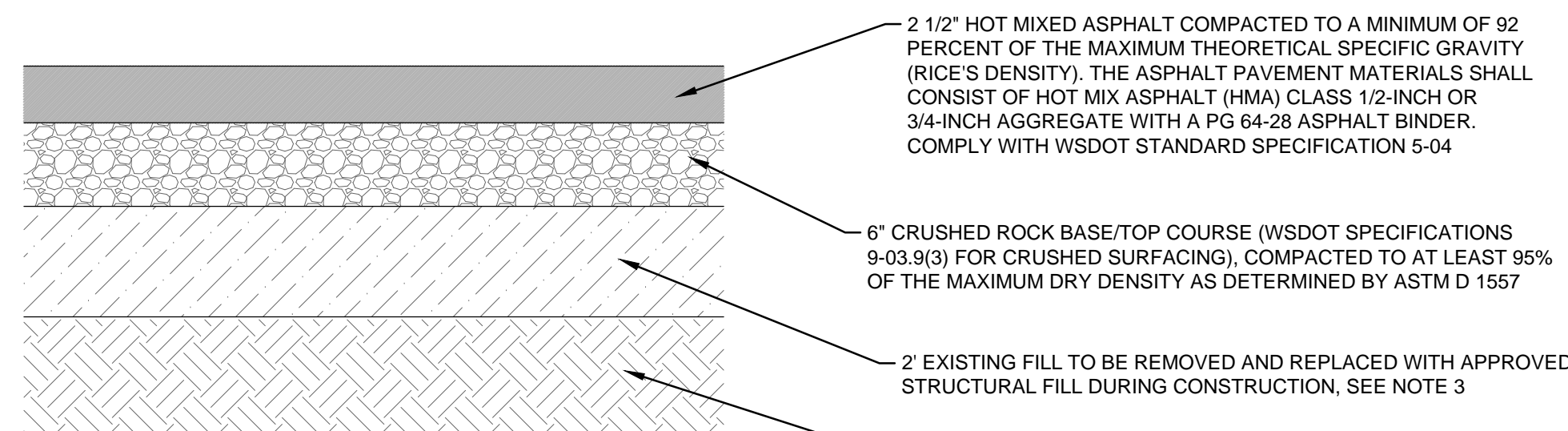
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No.	Date	By

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C-401
 SHEET

UTILITY STATEMENT
 LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN TAKEN FROM DRAWINGS AND FIELD LOCATES SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES. UTILITY LOCATIONS SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH UTILITY.

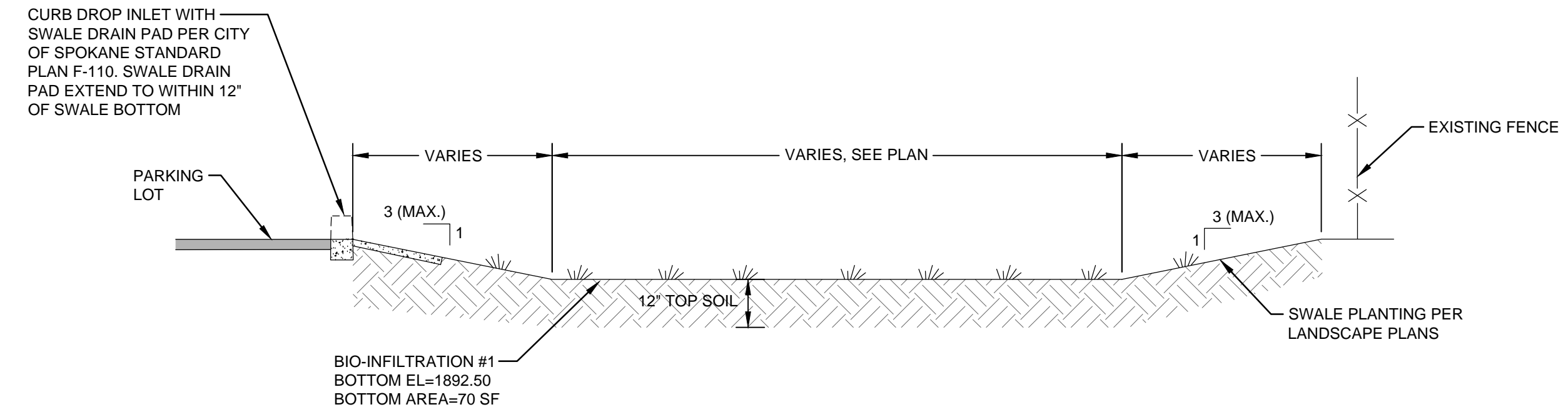
811
 Know what's below.
 Call before you dig.



NOTES:

- PLACE ACCEPTABLE SOIL MATERIAL IN LAYERS TO REQUIRED SUBGRADE ELEVATIONS.
- MATERIAL AND COMPACTION REQUIREMENTS SHALL CONFORM WITH WSDOT STANDARDS AND GEOTECHNICAL ENGINEERING RECOMMENDATIONS ASSOCIATED WITH THE SUBJECT SITE.
- REMOVE AND REPLACE EXISTING FILL MATERIAL 2 FEET BELOW PAVEMENT CRUSHED ROCK WITH STRUCTURAL FILL. RE-USE OF FILL MATERIAL WILL ONLY BE ALLOWED IF IT MEETS "USE OF ON-SITE SOIL" SECTION IN THE GEOTECHNICAL ENGINEERING EVALUATION FOR THE SUBJECT SITE.
- IF EXISTING SUBGRADE SOIL CONDITIONS INHIBIT PROPER COMPACTION, OVER EXCAVATE AND REPLACE SOIL WITH APPROVED ONSITE MATERIAL OR IMPORTED MATERIAL.

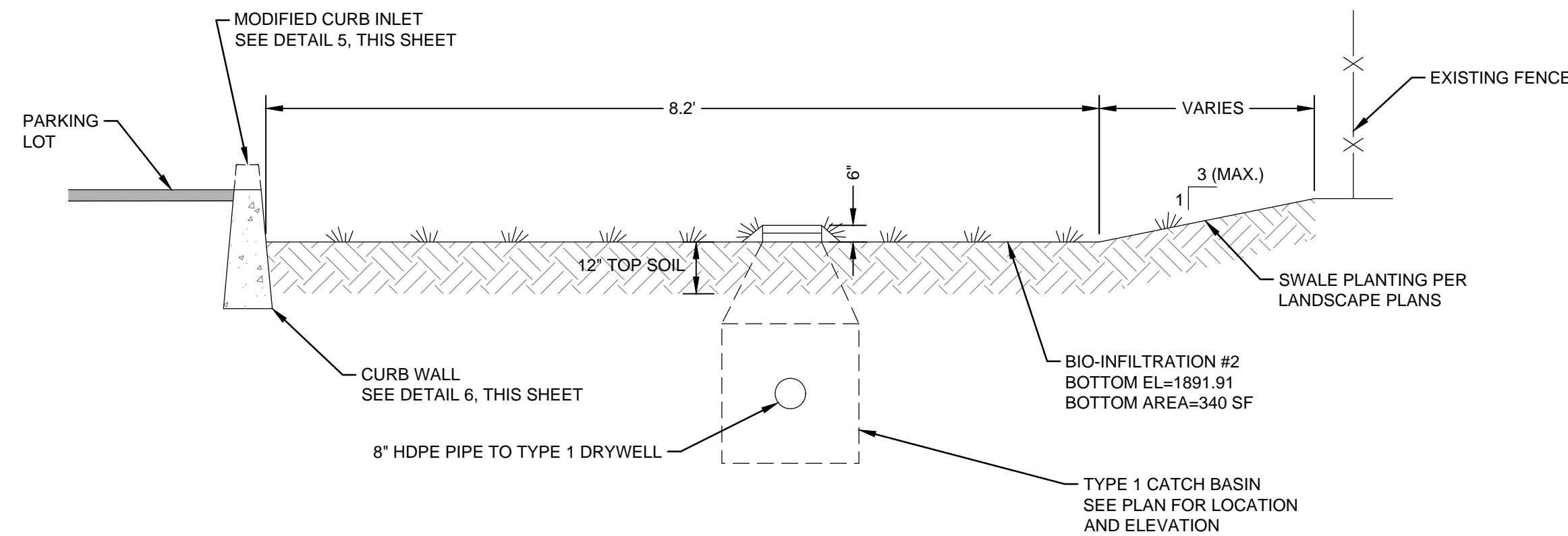
1 ASPHALT SECTION
C-301 SCALE: NTS



BIOINFILTRATION SWALE NOTES:

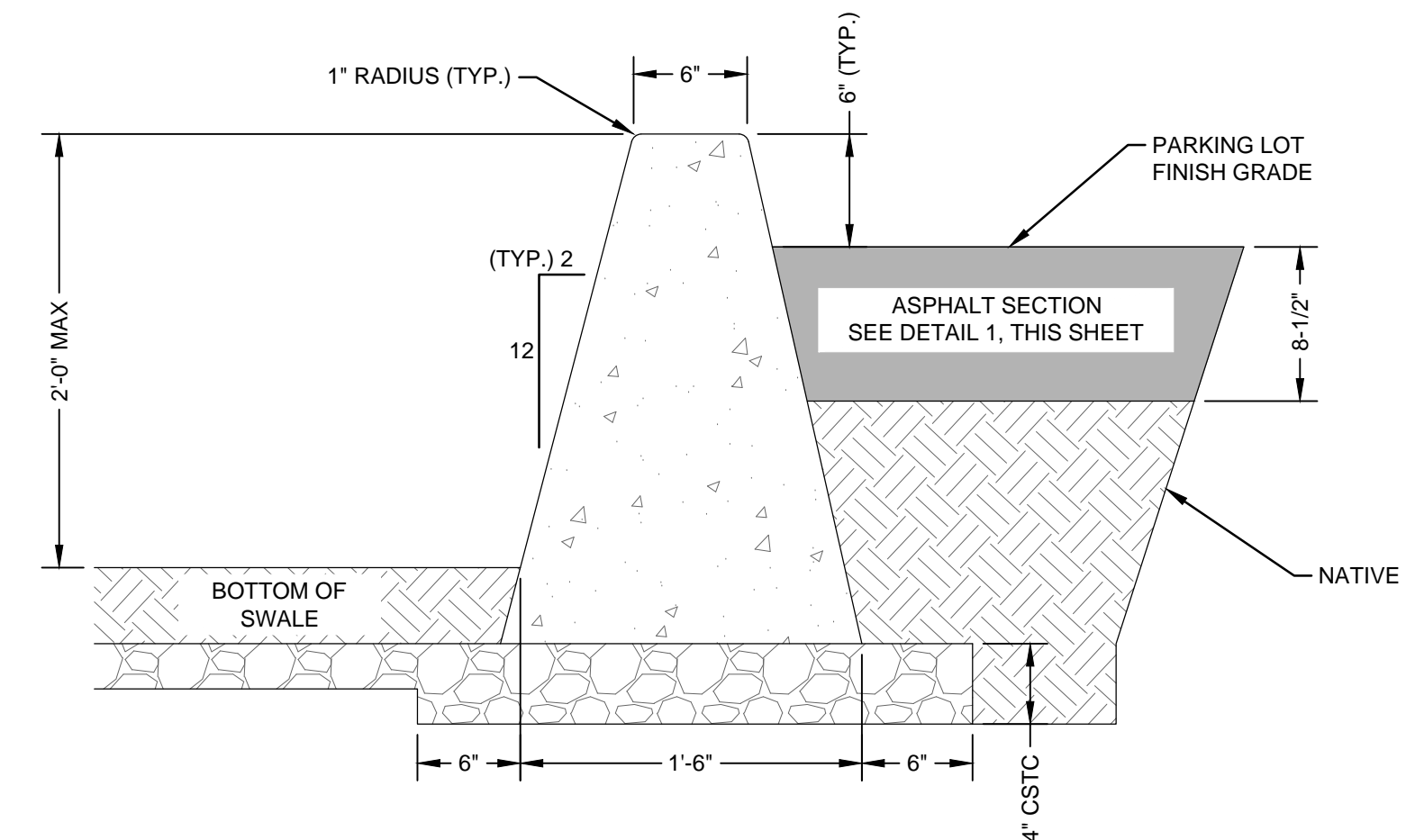
- SOILS IN THE SWALE AREA SHALL COMPLY WITH THE INFILTRATION RATE CRITERIA INDICATED IN TABLE 6-1 OF THE SPOKANE REGIONAL STORMWATER MANUAL, APRIL 2008. DO NOT OVER-COMPACT SWALE BOTTOM.
 - TREATMENT ZONE INFILTRATION RATE (VEGETATED COVER AND TREATMENT LAYER) BETWEEN 0.25 AND 0.50 INCHES/HOUR.
 - SUBGRADE INFILTRATE RATE OF AT LEAST 0.15 INCHES/HOUR.
 - AVERAGE CATION EXCHANGE CAPACITY OF AT LEAST 15 MILLEQUIVELANTS/100 GRAMS.
 - ORGANIC MATTER CONTENT OF AT LEAST 5.0% (8.0% OPTIMUM) BY WEIGHT.
 - MINIMUM 12 INCHES OF FREE-DRAINING TOPSOIL.
- REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION REGARDING SWALE PLANTINGS.

2 SWALE #1 SECTION
C-401 SCALE: NTS



BIOINFILTRATION SWALE NOTES:

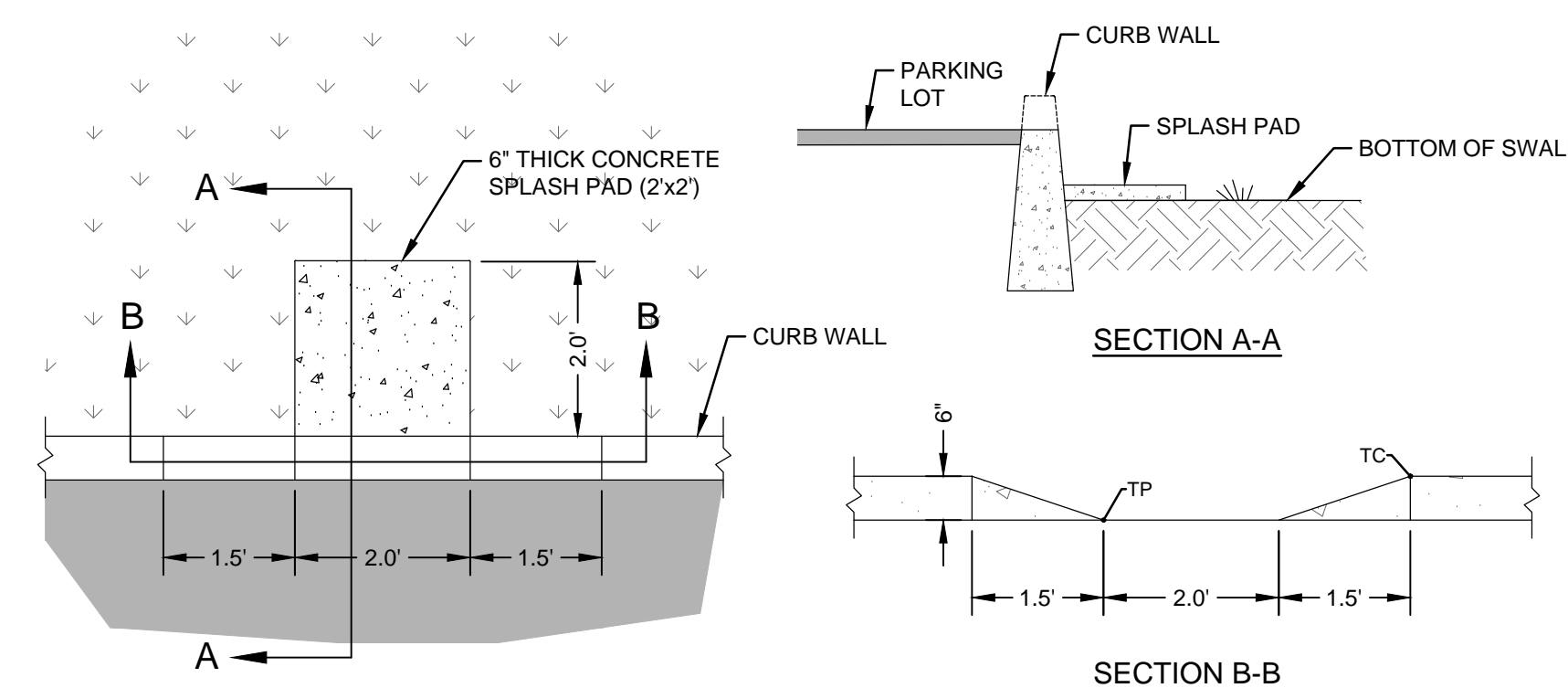
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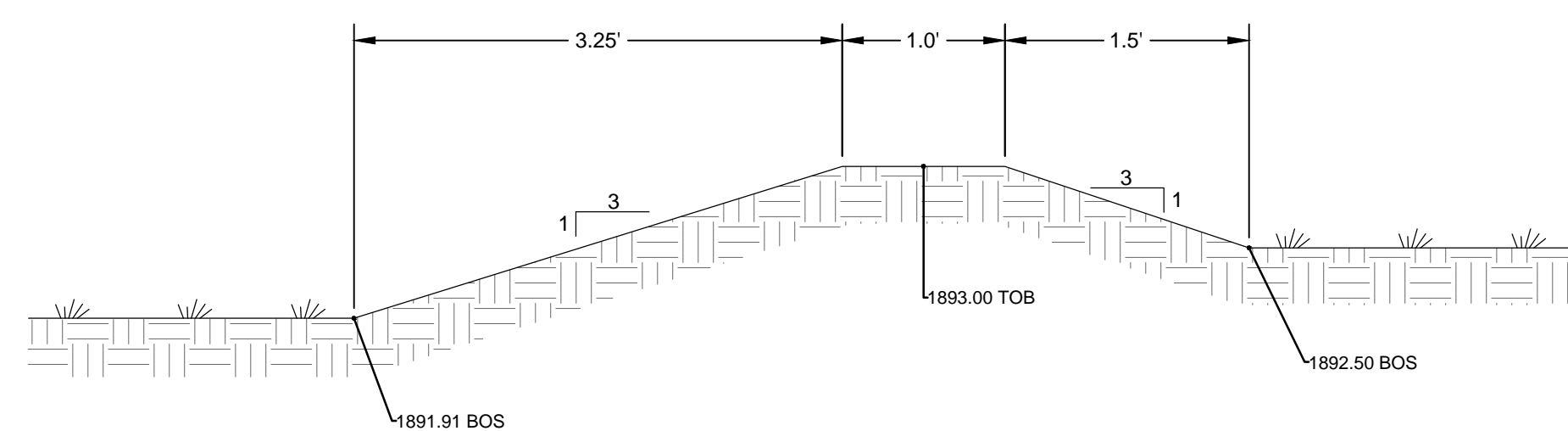
NOTES:

- CONCRETE SHALL BE AIR-ENTRAINED, 6 SACK, COMMERCIAL CONCRETE IN ACCORDANCE WITH CITY OF SPOKANE SEC 6-02.3(2)B. EXPOSED CURB WALL CONCRETE SHALL HAVE A CLASS 1 SURFACE FINISH PER CITY OF SPOKANE SEC 6-02.3(14).
- CURB WALL FOUNDATIONS SHALL BE PREPARED PER CITY OF SPOKANE SEC 2-09.3(3)C AND HAVE CRUSHED SURFACING TOP COURSE (CSTC) PER CITY OF SPOKANE SEC 9-03.9(3) PLACED UNDERNEATH THE FOOTING AT THE SPECIFIED THICKNESS AND COMPACTED TO 95% MAX DENSITY PER AASHTO T-180.
- BACKFILL SHALL NOT BE PLACED UNTIL THE CONCRETE HAS ATTAINED 90% OF ITS DESIGN STRENGTH AND CURED FOR AT LEAST 14-DAYS PER CITY OF SPOKANE SEC 2-09.3(1)E.

3 SWALE #2 SECTION
C-401 SCALE: NTS



5 MODIFIED CURB INLET
C-301 SCALE: NTS



4 SWALE BERM SECTION
C-401 SCALE: NTS

6 CURB WALL
C-401 SCALE: NTS

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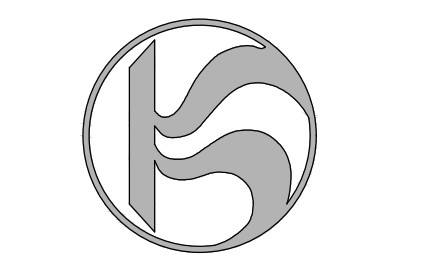


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DETAIL SHEET
STA BOONE PARKING LOT ADDITION
Spokane, Washington

SHEET TITLE
PROJECT NAME & ADDRESS

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201



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ADA DETAIL SHEET

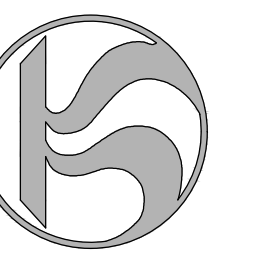
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Spokane, Washington

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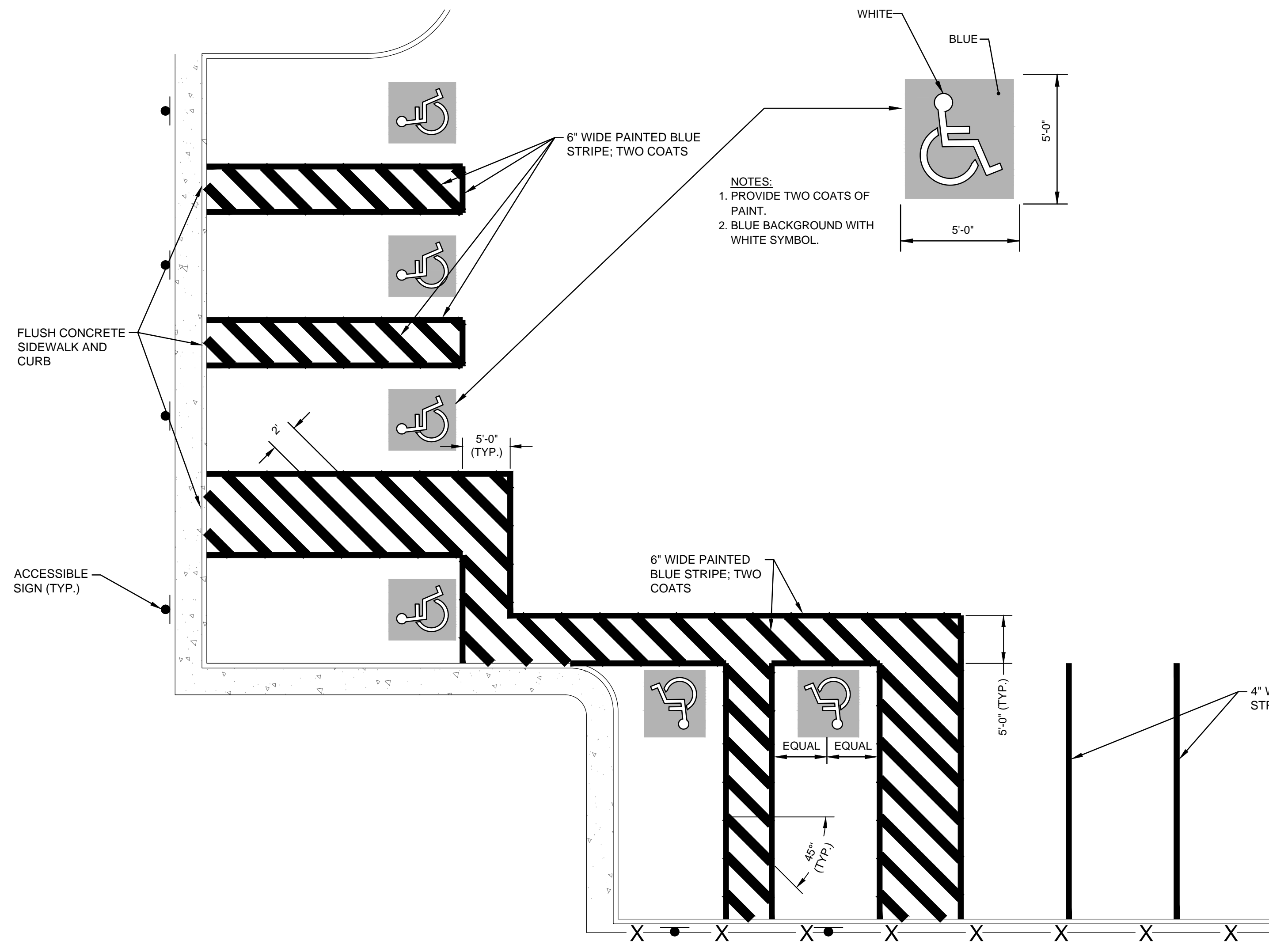
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C-502

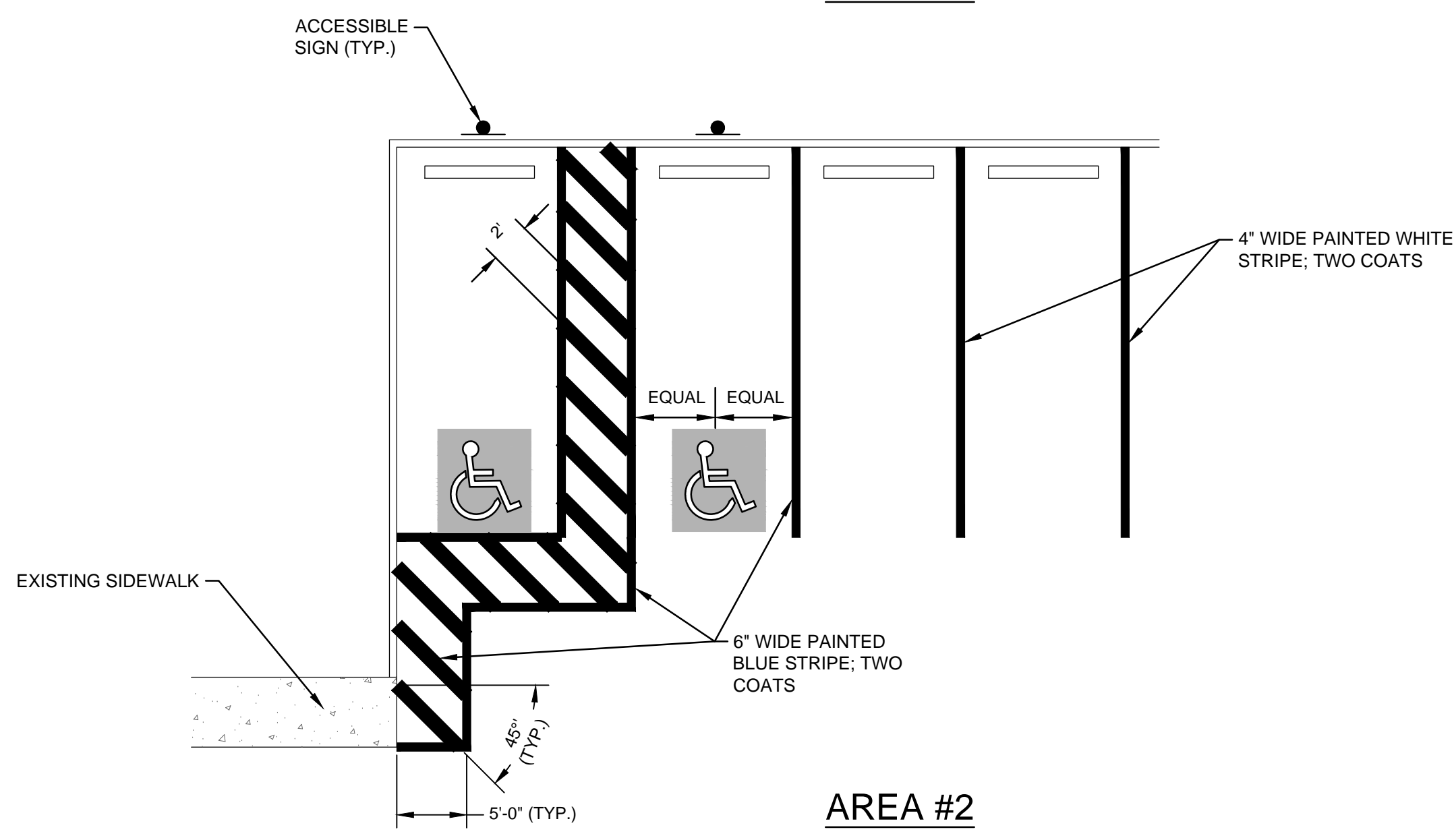
SHEET



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NOT PART OF THIS CONTRACT
(WORK TO BE COMPLETED BY STA)



AREA #1



AREA #2

- NOTES:
- STRIPING SHALL BE PERFORMED BY THE SPOKANE TRANSIT AUTHORITY (NOT PART OF BID).
 - EXISTING PAINT STRIPING SHALL BE OBLITERATED BEFORE RESTRIPIING.

7 ACCESSIBLE PARKING PLAN
SCALE: NTS

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
⊕	SHEET NOTE
----	UNDERGROUND CONDUIT
•□	POLE AND LUMINAIRE
⊠	HANDHOLE

ABBREVIATIONS	
LETTER	NAME
Ø	PHASE
AMP	AMPERE
AWG	AMERICAN WIRE GAUGE
A	ABOVE COUNTER / AMPERE
ADA	AMERICANS WITH DISABILITIES ACT
AF	ABOVE FINISHED FLOOR
AIC	INTERRUPTING CAPACITY
AL	ALUMINUM
B	BELOW COUNTER
CB	CIRCUIT BREAKER
CKT	CIRCUIT
COMM	COMMUNICATIONS
CT	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
ELEC	ELECTRIC
EMT	ELECTRICAL METALLIC CONDUIT
ENCL	ENCLOSURE
ER	EXISTING TO BE REMOVED
EQPM	EQUIPMENT
E	EXISTING TO REMAIN
FDR	FEEDER
FLA	FULL LOAD AMPERE
G	GROUND-FAULT CIRCUIT-INTERRUPTER / GROUND / GUARD
GALV	GALVANIZED
GFP	GROUND FAULT PROTECTION
GRS	GALVANIZED RIGID STEEL
HP	HORSEPOWER
HZ	HERTZ (CYCLES PER SECOND)
IC	INTERRUPTING CAPACITY
IN	INCH/INCHES
J-BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILO-VOLT-AMPERE
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MGB	MASTER GROUND BAR
MTD	MOUNTED
R	EXISTING TO BE RELOCATED

DEVICE MOUNTING HEIGHTS	
SPECIAL OUTLET HEIGHTS ARE SHOWN ON THE ELECTRICAL DRAWINGS OR ON THE ARCHITECTURAL DRAWINGS. IF SPECIAL OUTLET HEIGHTS ARE NOT SHOWN OR REQUIRED, THEN LOCATE OUTLETS AS NOTED BELOW. OUTLET HEIGHTS ARE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET UNLESS OTHERWISE NOTED.	
DEVICE	MOUNTING HEIGHT
RECEPTACLES	18 INCHES VERTICALLY MOUNTED
ABOVE COUNTER ELECTRICAL DEVICES	6" ABOVE COUNTER TO BOTTOM OF DEVICE
LIGHT SWITCHES	48 INCHES VERTICALLY MOUNTED
PANELBOARDS	72 INCHES TO TOP OF PANELBOARD
TELEPHONE OUTLET - DESK	18 INCHES VERTICALLY MOUNTED
TELEPHONE OUTLET - WALL	54 INCHES VERTICALLY MOUNTED
COMPUTER OUTLET - DESK	18 INCHES VERTICALLY MOUNTED
FIRE ALARM PULL STATION	48 INCHES
INTERCOM CALL BUTTON	48 INCHES
DIGITAL CLOCK/SPEAKER	PER ARCHITECTURAL INTERIOR ELEVATIONS
ANALOG CLOCK	PER ARCHITECTURAL INTERIOR ELEVATIONS
CATV OUTLET	18 INCHES VERTICALLY MOUNTED
KEYPAD/CARD READER	48 INCHES
FIRE ALARM HORN, STROBE OR HORN/STROBE	NOT LESS THAN 80" OR GREATER THAN 96" TO THE BOTTOM
FIRE ALARM CONTROL PANEL	72 INCHES
DOOR OPERATOR PUSH BUTTON	48 INCHES OR AS SHOWN ON ARCHITECTURAL ELEVATIONS

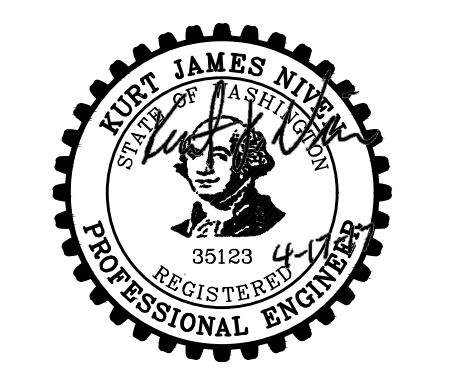
ELECTRICAL SPECIFICATIONS	
BASIC MATERIALS AND METHODS	
PART 1 -- GENERAL	
1.01 REFERENCES	
A.	UNDERWRITERS LABORATORIES INC.:
UL 6	RIGID STEEL CONDUIT.
UL 797	ELECTRICAL METALLIC TUBING.
B.	AMERICAN NATIONAL STANDARDS INSTITUTE:
ANSI/NEMA FB 1	FITTINGS AND SUPPORTS FOR CONDUIT AND CABLE ASSEMBLIES.
ANSI/NEMA OS 1	SHEET-STEEL OUTLET BOXES, DEVICE BOXES, COVERS AND BOX SUPPORTS.
ANSI C80.1	RIGID STEEL CONDUIT.
ANSI C80.3	ELECTRICAL METALLIC TUBING.
C.	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION:
NEMA WC 5	THERMOPLASTIC INSULATED WIRE AND CABLE FOR THE TRANSMISSION AND DISTRIBUTION OF ELECTRICAL ENERGY.
1.02 SUPPORT SYSTEMS	
A.	SUPPORT SYSTEMS SHALL BE ADEQUATE FOR WEIGHT OF EQUIPMENT AND CONDUIT, INCLUDING WIRING, WHICH THEY CARRY.
1.03 SUBMITTALS	
A.	SUBMIT ON THE FOLLOWING:
1.	LIGHT FIXTURES AND POLES
PART 2 -- PRODUCTS	
2.01 RIGID METAL CONDUIT AND FITTINGS	
A.	GALVANIZED RIGID STEEL CONDUIT: UL 6 AND ANSI C80.1; THICK WALL STEEL, HOT-DIP GALVANIZED, THREADED.
B.	FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; THREADED TYPE, MATERIAL TO MATCH CONDUIT.
C.	INTERMEDIATE METAL CONDUIT (IMC): UL 1242 AND ANSI C80; STEEL, HOT DIPPED GALVANIZED, THREADED.
2.02 ELECTRICAL METALLIC TUBING (EMT) AND FITTINGS	
A.	EMT: UL 797 AND ANSI C80.3; STEEL TUBING, HOT-DIP GALVANIZED.
B.	FITTINGS: ANSI/NEMA FB 1; STEEL, RAIN-TIGHT, INSULATED THROAT, COMPRESSION TYPE.
2.03 FLEXIBLE METAL CONDUIT AND FITTINGS	
A.	FLEXIBLE METAL CONDUIT: FS WW-C-566; GALVANIZED STEEL.
B.	LIQUID-TIGHT CONDUIT: FLEXIBLE METAL CONDUIT WITH COPPER BONDING TAPE AND WEATHER-PROOF JACKET.
C.	FITTINGS: ANSI/NEMA FB 1; STEEL, INSULATED THROAT.
2.04 CONDUIT SUPPORTS	
A.	CONDUIT CLAMPS, STRAPS, AND SUPPORTS: STEEL OR MALLEABLE IRON.
2.05 SUPPORTING DEVICES	
A.	SUPPORT CHANNEL: ELECTRO-GALVANIZED, 12 GAUGE, 1-5/8" X 1-5/8" MINIMUM SIZE.
B.	HARDWARE: CORROSION RESISTANT.
2.06 BUILDING WIRE	
A.	THERMOPLASTIC-INSULATED BUILDING WIRE: NEMA WC 5.
1.	INTERIOR FEEDERS, BRANCH CIRCUITS #8 AND LARGER, AND CONTROL WIRING: COPPER, STRANDED CONDUCTOR, 600 VOLT INSULATION, 90 DEGREE TYPE THHN/THWN. SOLID CONDUCTOR IS UNACCEPTABLE.
2.	BRANCH CIRCUITS #10 AND #12 WIRING: COPPER, SOLID CONDUCTOR, 600 VOLT INSULATION, 90 DEGREE TYPE THHN/THWN OR EQUIVALENT MC CABLE.
3.	CONTROL PANEL WIRING: COPPER, STRANDED CONDUCTOR, 600 VOLT INSULATION, EXTRA FLEXIBLE TYPE MTW.
2.07 IDENTIFICATION	
A.	TAPE LABELS: EMBOSSED ADHESIVE TAPE, 3/8 INCH, WHITE LETTERS ON BLACK BACKGROUND.
B.	WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE.
PART 3 -- EXECUTION	
3.01 CONDUIT INSTALLATION	
A.	CUT CONDUIT SQUARE USING A SAW OR PIPE CUTTER; DE_BURR CUT ENDS.
B.	BRING CONDUIT TO THE SHOULDER OF FITTINGS AND COUPLINGS AND FASTEN SECURELY.
C.	CONDUIT TERMINATIONS AT SWITCHBOARDS, PULL BOXES, ETC., SHALL BE RIGIDLY SECURED USING LOCKNUTS AND METALLIC GROUNDING INSULATING BUSHINGS WHERE REQUIRED OR INDICATED ON DRAWINGS.
D.	USE CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION, AS AROUND BEAMS, ON APPROVAL OF ENGINEER ONLY.
E.	WHERE CONDUITS ENTER/EXIT FLOOR, PROVIDE THREADED COUPLING WITH UPPER END FLUSH WITH FINISHED FLOOR. INSTALL THREADED PLUGS IN UNUSED CONDUITS.
F.	USE HYDRAULIC ONE_SHOT CONDUIT BENDER OR FACTORY ELBOWS FOR BENDS IN CONDUIT LARGER THAN 1-1/4 INCH SIZE.
G.	USE SUITABLE CONDUIT CAPS TO PROTECT INSTALLED CONDUIT AGAINST ENTRANCE OF DIRT AND MOISTURE.
H.	PROVIDE SUITABLE PULL STRING IN ALL SPARE AND DATA/COMMUNICATION CONDUITS INSTALLED OR ACCESSED IN THIS CONTRACT, EXCEPT SLEEVES AND NIPPLES.
I.	SEAL BETWEEN RACEWAY AND BUILDING WHERE RACEWAY PASSES THROUGH EXTERIOR WALL OR RATED FIREWALL PER THE FOLLOWING:
1.	CONCRETE CONSTRUCTION: CAST CONDUIT IN WALL OR CORE DRILL WALL AND HARD PACK WITH EQUAL PARTS OF SAND AND CONCRETE OR AN EQUIVALENT METHOD AS APPROVED BY OWNER.

ELECTRICAL SPECIFICATIONS		
3.02 CONDUIT INSTALLATION SCHEDULE		
A.	EXPOSED OUTDOOR LOCATIONS: GALVANIZED RIGID STEEL CONDUIT.	
B.	DRY INTERIOR LOCATIONS WITHIN 48 INCHES OF FLOOR OR 2 INCHES DIAMETER AND LARGER: GALVANIZED RIGID STEEL CONDUIT, INTERMEDIATE METAL CONDUIT.	
C.	DRY INTERIOR LOCATIONS HIGHER THAN 48 INCHES ABOVE THE FLOOR AND SMALLER THAN 2 INCHES DIAMETER: ELECTRICAL METALLIC TUBING.	
D.	MOTOR TERMINALS: FLEXIBLE METAL CONDUIT (18" MAXIMUM LENGTH) FOR FLEXIBILITY. INCLUDE INTERNAL GROUND WIRE.	
E.	THE ABOVE SCHEDULE APPLIES UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS.	
3.03 COORDINATION OF BOX LOCATIONS		
A.	PROVIDE ELECTRICAL BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND CODE COMPLIANCE.	
B.	SUPPORT BOXES INDEPENDENT OF CONDUIT.	
C.	ELECTRICAL BOX LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE UNLESS DIMENSIONED. VERIFY LOCATION OF OUTLETS IN OFFICES AND WORK AREAS PRIOR TO ROUGH-IN.	
D.	LOCATE AND INSTALL BOXES TO ALLOW ACCESS. WHERE INSTALLATION IS INACCESSIBLE, COORDINATE LOCATIONS AND SIZES OF REQUIRED ACCESS DOORS.	
E.	LOCATE AND INSTALL TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.	
3.04 SUPPORTING DEVICES		
A.	FASTEN HANGER RODS, CONDUIT CLAMPS, AND OUTLET AND JUNCTION BOXES TO BUILDING STRUCTURE.	
B.	DO NOT FASTEN SUPPORTS TO PIPING, DUCTWORK, MECHANICAL EQUIPMENT, OR CONDUIT.	
C.	DO NOT USE POWDER-ACTUATED ANCHORS.	
3.05 GENERAL WIRING METHODS		
A.	USE NO WIRE SMALLER THAN 12 AWG FOR POWER AND LIGHTING CIRCUITS, AND NO SMALLER THAN 14 AWG FOR CONTROL WIRING, UNLESS OTHERWISE NOTED ON THE DRAWINGS.	
B.	SIZE CONDUCTORS AS SHOWN ON THE DRAWINGS. NO SIZE DEVIATION SHALL BE PERMITTED, UNLESS NOTED OTHERWISE ON DRAWING.	
C.	SPLICE ONLY IN JUNCTION OR OUTLET BOXES. NO SPLICING SHALL BE PERMITTED IN PANELBOARD ENCLOSURES.	
D.	FEEDERS SHALL NOT BE SPLICED WITHOUT SPECIFIC APPROVAL FROM OWNER.	
E.	NEATLY TRAIN AND LACE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.	
3.06 WIRING INSTALLATION IN RACEWAYS		
A.	PULL ALL CONDUCTORS INTO A RACEWAY AT THE SAME TIME. USE UL LISTED WIRE PULLING LUBRICANT FOR PULLING 4 AWG AND LARGER WIRES.	
B.	INSTALL WIRE IN RACEWAY AFTER ALL MECHANICAL WORK LIKELY TO DAMAGE CONDUCTORS HAS BEEN COMPLETED.	
3.07 WIRING CONNECTIONS AND TERMINATIONS		
A.	SPLICE ONLY IN ACCESSIBLE JUNCTION BOXES.	
B.	USE UL LISTED COMPRESSION TYPE CONNECTORS WITH INSULATING COVERS FOR COPPER WIRE SPLICES AND TAPS. FOR 8 AWG AND SMALLER, USE INSULATED SPRING CONNECTORS WITH PLASTIC CAPS. 3M SCOTCHLOK OR EQUAL.	
C.	THOROUGHLY CLEAN WIRES BEFORE INSTALLING LUGS AND CONNECTORS.	
D.	MAKE SPLICES, TAPS, AND TERMINATIONS TO CARRY FULL AMPACITY OF CONDUCTORS WITHOUT PERCEPTIBLE TEMPERATURE RISE.	
E.	TERMINATE DEAD-ENDED CONDUCTORS WITH ELECTRICAL TAPE AND MAKE SAFE.	
3.08 FIELD QUALITY CONTROL		
A.	INSPECT WIRE AND CABLE FOR PHYSICAL DAMAGE AND PROPER CONNECTION.	
B.	TORQUE TEST CONDUCTOR CONNECTIONS AND TERMINATIONS TO MANUFACTURER'S RECOMMENDED VALUES.	
3.09 COLOR CODING		
A.	WIRING SHALL CONFORM TO THE FOLLOWING COLOR CODE. SIZES #8 AWG AND SMALLER SHALL BE COLORED, #6 AWG AND LARGER MAY BE COLORED WITH PLASTIC TAPE OF THE APPROPRIATE COLOR.	
DESCRIPTION 208Y/120V CONTROL		
PHASE A (LEFT)	BLACK	-
PHASE B (CENTER)	RED	-
PHASE C (RIGHT)	BLUE	-
NEUTRAL	WHITE	WHITE
GROUND	GREEN	GREEN
120 VAC CONTROL	-	RED
120 VAC CONTROL NEUTRAL	-	WHITE
DC CONTROL (+)	-	BLUE
DC CONTROL (-)	-	BLUE/WHITE
EXTERNAL SOURCE	-	YELLOW
3.10 IDENTIFICATION		
A.	DEGREASE AND CLEAN SURFACES TO RECEIVE NAMEPLATES AND TAPE LABELS.	
B.	INSTALL NAMEPLATES ON ALL EQUIPMENT DISCONNECTS, CONTROL PANELS, ETC., INSTALLED. INSTALL PARALLEL TO EQUIPMENT LINES.	
C.	SECURE NAMEPLATES TO EQUIPMENT USING SCREWS.	
D.	INSTALL LABELS (EMBOSSED TAPE) ON ALL OTHER BOXES AND DEVICES, INCLUDING BUT NOT LIMITED TO SWITCHES, RECEPTACLES.	
E.	NAMEPLATES AND LABELS SHALL INDICATE PANEL AND CIRCUIT NUMBER EQUIPMENT IS SERVED FROM. ("PNLA:2" FOR CIRCUIT 2 FROM PANEL A).	
F.	PROVIDE WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT ALL LOAD CONNECTIONS. IDENTIFY WITH BRANCH CIRCUIT OR FEEDER NUMBER AS INDICATED ON DRAWINGS. FOR CONTROL WIRING, IDENTIFY WITH WIRE NUMBER INDICATED ON THE SCHEMATIC OR INTERCONNECTION DIAGRAMS. PROVIDE MEGGER RESULTS. USE ATTACHED FORM A (16050), LOW VOLTAGE (600V AND LESS) INSULATION MEGGER TEST REPORT.	
END OF SECTION		

GENERAL NOTES	
1.	ALL WORK SHALL COMPLY WITH THE CURRENT NEC AS ADOPTED BY THE STATE OF WASHINGTON AND LOCAL AUTHORITY HAVING JURISDICTION.
2.	CATALOG NUMBERS USED IN SYMBOLS LIST AND LUMINAIRE SCHEDULE ARE TO BE AS NOTED OR APPROVED.
3.	ALL BALLASTED LUMINAIRES ARE TO BE PROVIDED WITH MULTIVOLT BALLASTS OR DRIVERS UNLESS OTHERWISE SPECIFIED.
4.	ALL EXPOSED ELECTRICAL CONDUIT, WIRE, DEVICES, EQUIPMENT, ETC., THAT ARE TO BE ABANDONED SHALL BE REMOVED.
5.	EXISTING CONDUIT MAY NOT BE REUSED.
6.	ALL CONDUIT SHALL BE RUN CONCEALED UNLESS NOTED OTHERWISE.
7.	THE ELECTRICAL CONTRACTOR SHALL TOUR THE PROJECT SITE TO ASSESS EXISTING CONDITION, WHICH MAY EFFECT BID.
8.	ELECTRICAL CONTRACTOR SHALL REPAIR ALL AREAS AFFECTED BY ANY ALTERATIONS, REMOVAL AND/OR INSTALLATION OF ADDITIONAL EQUIPMENT INCLUDED IN ELECTRICAL WORK.
9.	UNLESS OTHERWISE INDICATED, ALL EXISTING ELECTRICAL EQUIPMENT REMOVED SHALL BE REMOVED FROM SITE.
10.	EXACT LOCATIONS OF EXISTING EQUIPMENT MAY VARY FROM LOCATIONS AS INDICATED ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS THAT MAY RESULT IN A CONFLICT WITH NEW EQUIPMENT AND REVISE EXISTING DEVICE TO ACCOMMODATE NEW INSTALLATION.
11.	EVERY EFFORT HAS BEEN MADE TO COORDINATE EXISTING ELECTRICAL INFORMATION, WHETHER EXISTING TO REMAIN OR BE REMOVED WITH BOTH AS-BUILT DRAWINGS AND SITE OBSERVATIONS. HOWEVER, DISCREPANCIES MAY EXIST BETWEEN ACTUAL AND SHOWN CONDITIONS AND ELECTRICAL WORK. THE ELECTRICAL CONTRACTOR SHOULD EXPECT MINOR DEVIATIONS TO OCCUR AND IS EXPECTED TO WORK THROUGH THEM WITH ASSISTANCE FROM BUILDING OWNER AND ELECTRICAL ENGINEER.
12.	WHERE EXISTING LUMINAIRES ARE TO REMAIN IN SERVICE MAINTAINING CIRCUITING AND SWITCHING, CONTRACTOR SHALL IDENTIFY, MARK, AND MAINTAIN CIRCUIT CONTINUITY AND SWITCHING INTEGRITY REGARDLESS OF SHOWN CONDITIONS ON DRAWINGS.
13.	MOUNTING HEIGHTS OF DUPLEX RECEPTACLES AND OTHER OUTLETS SHALL BE 16" TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED.
14.	CATALOG NUMBERS USED SHALL BE AS NOTED OR APPROVED EQUALS.
15.	CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES.
16.	CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIAL FOR COMPLETE WIRING SYSTEMS AS SHOWN OR SPECIFIED.
17.	INSTALLATION SHALL COMPLY WITH NEC 2014 AND LOCAL CODES.
18.	CONTRACTOR TO REFER TO MANUFACTURER'S DOCUMENTS FOR ADDITIONAL DATA PRIOR TO STARTING ROUGH-IN.
19.	CONTRACTOR TO PROVIDE ALL RECEPTACLES, CORDS, CORD CAPS, SWITCHES AND WIRING UNLESS OTHERWISE NOTED.

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STAMP
SYMBOLS LEGEND, ABBREVIATIONS, GENERAL NOTES AND SPECIFICATIONS
 STA BOONE PARKING LOT ADDITION
 Spokane, Washington
 PROJECT NAME & ADDRESS

Spokane Transit Authority
 1230 W. Boone Avenue, Spokane, Washington 99201

REVISIONS		
No.	Date	By

PROJ. NO. 17-STA-575
 DRAWN ACB
 CHECKED ZLY
 DATE 05/24/17

E-001

SHEET

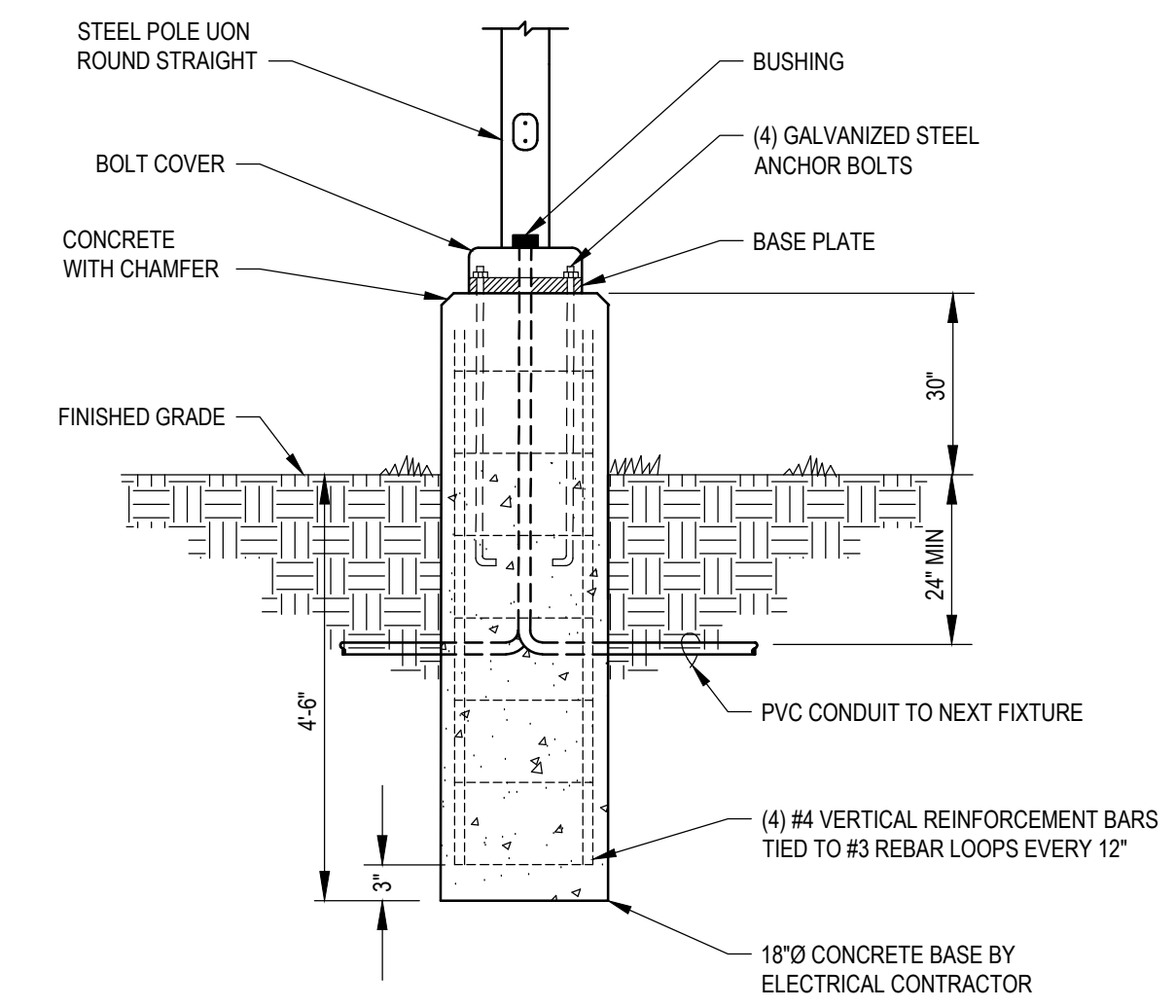
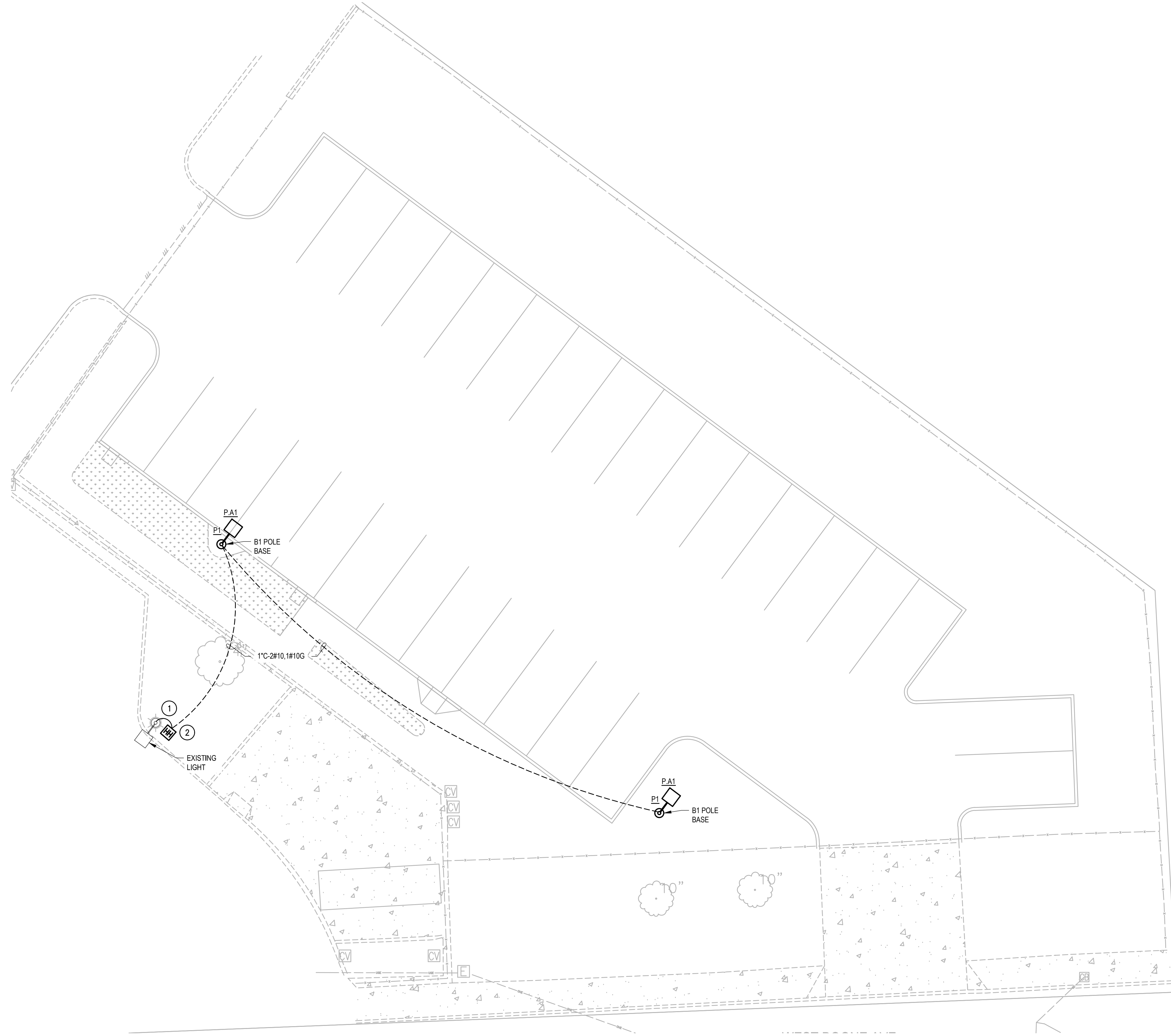
LUMINAIRE SCHEDULE												
TYPE	MANUFACTURER	CATALOG NUMBER	MAX WATTS	SOURCE/ MIN LUMENS	QUANTITY	TEMPERATURE/ CRI	DRIVER	VOLT	MOUNTING	FINISH	LOCATION	DESCRIPTION
P.A1	LITHONIA LIGHTING	KAD LED 30C 700 R4 MVOLT RPD12 DDBXD	69	LED	2	4000K	LED DRIVER	UNV	POLE SURFACE	DARK BRONZE	SITE	AREA POLE LED SINGLE HEAD LUMINAIRE TYPE 4 DISTRIBUTION SHOEBOX LED LUMINAIRE, L70 = 100,000 HOUR MIN. DARK BRONZE FINISH.
	PHILIPS GARDCO	H14L-32L-900-NW-G2-AR1-4-UNV-DD-HISBDA (96 WATTS)		8370 LUMEN		80 CRI MIN						
P1	LITHONIA LIGHTING	RSS 16.4-5B DM19AS DDBXD			2				POLE-BASE	DARK BRONZE	SITE	16" 4.5" DIA ROUND TAPERED STEEL POLE PROVIDE SINGLE UNIT DRILL PATTERN. DARK BRONZE FINISH.
	VALMONT INDUSTRIES	DS340-400V160-D1										
	UNITED LTG STANDARDS	RSP-16.4-11-D2										

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE CURRENT NEC AS ADOPTED BY THE STATE OF WASHINGTON AND LOCAL AUTHORITY HAVING JURISDICTION.
- ALL CONDUIT SHALL BE RGS OR PVC. MINIMUM BURIAL DEPTH SHALL BE AS REQUIRED IN NEC TABLE 300-5. TRANSITIONS ARE ACCEPTABLE BASED ON TRENCH DEPTH AND CONDITIONS.
- TRENCHING AND INSTALLATION OF CONDUIT AND ELECTRICAL EQUIPMENT IS IN THE VICINITY OF UNDERGROUND UTILITIES. CALL AND HAVE LOCATED PRIOR TO WORK. EXACT LOCATIONS AND QUANTITY IS UNKNOWN. PROCEED WITH CAUTION. REPAIR ALL DISRUPTIONS AND DAMAGE.
- NOT USED.
- VERIFY EXISTING SURFACE CONDITIONS FOR FACTORS WHICH MAY AFFECT BID PRIOR TO BIDDING.
- CONTRACTOR SHALL ENGAGE A COMMERCIAL LOCATE SERVICE TO IDENTIFY EXISTING UNDERGROUND UTILITIES.

KEY NOTES

- INTERCEPT EXISTING CIRCUIT AND CONDUIT SERVING THE EXISTING LIGHT POLE WITH HAND HOLE. TAP CIRCUIT AND EXTEND 1" C-2#10, 1#101G TO NEW PARKING LOT LIGHT POLES.
- PROVIDE AN OLDCASTLE "CARSON" 910 HAND HOLE BOX WITH "T COVER SOLID" LID.



- NOTES:**
- SITE ELECTRICAL CONTR. TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES & DRAINAGE BEFORE DRILLING POLE BASES.
 - POLE BASE IS TO BE ONE CONTINUOUS POUR. PORTION OF EXPOSED CONC. BASE ABOVE PAVEMENT SHALL BE HAND RUBBED SMOOTH. PRE-CAST CONCRETE POLE BASES ARE ACCEPTABLE.
 - SHAFT CAP, ARMS, BASE FLANGE, ANCHOR BOLTS, LEVELING NUTS, CONNECTION, HARDWARE, BOLT COVERS, HANDHOLE COVER, AND BOLT CIRCLE TEMPLATE SHALL BE FURNISHED BY POLE MANUFACTURER.
 - GROUND LIGHT POLE PER NATIONAL ELECTRICAL CODE.
 - CONTRACTOR TO TAKE SPECIAL CARE TO ENSURE CONCRETE POLE BASES ARE POURED/SET VERTICAL & LEVEL.

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KURT JAMES NIXON
 REGISTERED PROFESSIONAL ENGINEER
 No. 35123 4-7-17

STAMP

ELECTRICAL PARKING LOT PLAN

STA BOONE PARKING LOT ADDITION
 Spokane, Washington

SHEET TITLE PROJECT NAME & ADDRESS

Spokane Transit Authority
 1230 W. Boone Avenue, Spokane, Washington 99201

CLIENT INFORMATION

REVISIONS

No.	Date	By

PROJ. NO. 17-STA-575
 DRAWN ACB
 CHECKED ZLY
 DATE 05/24/17

E-101

SHEET

A1 ELECTRICAL SITE PLAN
 E101

A5 POLE BASE DETAIL - (B1)
 E101 SCALE: NTS

SCALE: 1" = 10'-0"

GENERAL PLANTING NOTES:

1. THE INFORMATION ON THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE CORRESPONDING DOCUMENTS DEVELOPED FOR THIS PROJECT. REFER TO THOSE DOCUMENTS FOR ADDITIONAL INFORMATION.
2. VERIFY LOCATION OF ALL EXISTING AND PROPOSED UTILITIES EITHER ABOVE OR BELOW GRADE PRIOR TO BEGINNING ANY WORK. COORDINATE WITH IRRIGATION CONTRACTOR TO AVOID CONFLICTS BETWEEN IRRIGATION EQUIPMENT AND TREES/SHRUB PLACEMENT.
3. VERIFY THAT SUB GRADE PREPARATION HAS BEEN COMPLETED TO ACCEPTABLE TOLERANCES PRIOR TO BEGINNING ANY WORK.
4. ALL WORK COMPLETED SHALL BE GUARANTEED PER SPECIFICATIONS.
5. LANDSCAPED AREAS TO RECEIVE 6" OF TOPSOIL IN ALL SHRUB PLANTING AREAS.
6. ALL LANDSCAPE AREAS SHALL BE IRRIGATED BY AN AUTOMATIC IRRIGATION SYSTEM - SEE PERFORMANCE IRRIGATION NOTES, THIS SHEET.
7. COORDINATE WITH GENERAL CONTRACTOR FOR THE PROTECTION AND WATERING OF EXISTING PLANT MATERIAL UNTIL THE NEW IRRIGATION SYSTEM IS OPERABLE.
8. SHRUB PLANTING AREAS SHALL BE MULCHED WITH 2" OF APPROVED 3/4" - 1 1/2" BASALT CHIP MULCH UNLESS OTHERWISE NOTED. GROUND COVER AREAS SHALL BE DRESSED WITH 1" OF APPROVED 3/4" - 1 1/2" BASALT CHIP MULCH UNLESS OTHERWISE NOTED. FINISHED GRADE OF MULCH SHALL NOT BE ABOVE OR MORE THAN 1" BELOW ADJOINING SURFACES.
9. PROVIDE WEED BARRIER FABRIC UNDER ROCK MULCH IN ALL PLANTING BEDS.
10. PLANT QUANTITIES ARE PROVIDED FOR CONVENIENCE PURPOSES ONLY, ACTUAL PLANT SYMBOLS SHALL DICTATE COUNT.

PERFORMANCE IRRIGATION NOTES:

1. THE INFORMATION ON THIS SHEET IS INCOMPLETE UNLESS ACCOMPANIED BY THE CORRESPONDING DRAWINGS AND DOCUMENTS DEVELOPED FOR THIS PROJECT.
2. ALWAYS PLACE IRRIGATION SYSTEM MATERIALS WITHIN LANDSCAPE AREAS. LOCATE VALVE BOXES NEXT TO CURBS, PAVED SURFACES, OR IN PLANTING BEDS WHERE POSSIBLE. DO NOT LOCATE VALVES OR VALVE BOXES IN THE BOTTOM OF DRAINAGE BASINS.
3. MODIFY EXISTING IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE TO NEW AND EXISTING PLANTING AREAS. NO METER OR CONNECTION TO CITY WATER IS REQUIRED FOR THIS PROJECT. PROVIDE SEPARATE ZONES FOR PLANTING BEDS AND LAWN AREAS.
4. MODIFY EXISTING CONTROL WIRING TO SERVE NEW ZONES. WHERE SPARE WIRES DO NOT EXIST FOR MODIFICATION, MODIFY EXISTING CONTROLLER WITH NETAFIM NLC-3D HYBRID CONTROLLER, DECODERS, AND ACCESSORIES AS REQUIRED.
5. SLEEVING SHALL BE PROVIDED UNDER ALL HARD SURFACES AND SHALL BE 4" CLASS 200 PVC FOR ALL PIPING UP TO 2.5'. PROVIDE SEPARATE 2" SLEEVES UNDER ALL HARD SURFACES FOR IRRIGATION WIRING.
6. CONTRACTOR TO COMPLY WITH ALL LOCAL CODES AND ORDINANCES.
7. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES ABOVE AND BELOW GRADE PRIOR TO BEGINNING ANY WORK.
8. CONTRACTOR IS TO ADJUST IRRIGATION HEADS AS IS NECESSARY PRIOR TO SUBSTANTIAL COMPLETION, AND AGAIN AT FINAL COMPLETION.
9. CONTRACTOR TO COORDINATE IRRIGATION EQUIPMENT WITH LANDSCAPE MATERIALS TO AVOID CONFLICTS.
10. CONTRACTOR IS TO USE 6" POP-UP HEADS FOR ALL SHRUB BEDS.
11. CONTRACTOR SHALL WARRANTY ENTIRE IRRIGATION SYSTEM FOR ONE (1) YEAR, BEGINNING AT DATE OF SUBSTANTIAL COMPLETION.
12. FOR ALL THREADED FITTINGS, ONLY USE JOINT SEALANTS AS APPROVED BY FITTING MANUFACTURER AND TIGHTEN PER MANUFACTURER'S PRINTED INSTRUCTIONS, TAKING EXTREME CAUTION AGAINST OVER-TIGHTENING FITTINGS.

PLANT SCHEDULE BONEYARD

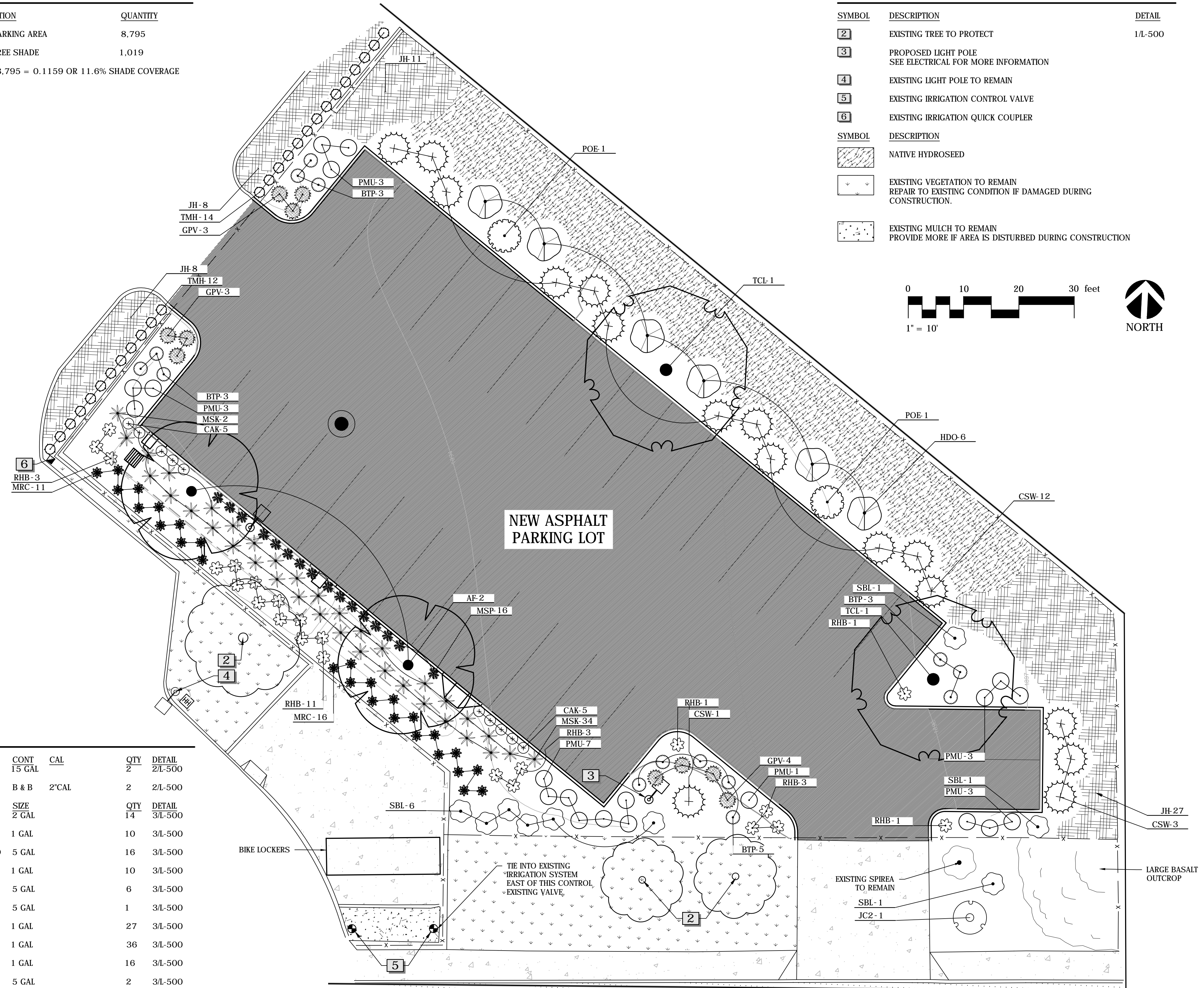
TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	QTY	DETAIL
AF	ACER X FREEMANII / FREEMAN MAPLE	15 GAL		2	2/L-500
TCL	TILIA CORDATA / LITTLELEAF LINDEN	B & B	2" CAL	2	2/L-500
SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	QTY	DETAIL	
BTP	BERBERIS THUNBERGII 'PYGRUZAM' / PYGMY RUBY BARBERRY	2 GAL		14	3/L-500
CAK	CALAMAGROSTIS ACUTIFOLIA 'KARL FOERSTER' / FOERSTER'S REED GRASS	1 GAL		10	3/L-500
CSW	CORNUS SANGUINEA 'WINTER FLAME' / WINTER FLAME BLOODTWIG DOGWOOD	5 GAL		16	3/L-500
GPV	GENISTA PILOSA 'VANCOUVER GOLD' / VANCOUVER GOLD BROOM	1 GAL		10	3/L-500
HDO	HOLODISCUS DISCOLOR / OCEAN SPRAY	5 GAL		6	3/L-500
JC2	JUNIPERUS SABINA 'CALGARY CARPET' TM / CALGARY CARPET JUNIPER	5 GAL		1	3/L-500
MRC	MAHONIA REPENS / CREEPING MAHONIA	1 GAL		27	3/L-500
MSK	MISCANTHUS SINENSIS 'KIRK ALEXANDER' / DWARF ZEBRA GRASS	1 GAL		36	3/L-500
MSP	MISCANTHUS SINENSIS 'PURPURESCENS' / PURPLE FOUNTAIN GRASS	1 GAL		16	3/L-500
POE	PHYSOCARPUS OPULIFOLIUS / EASTERN NINEBARK	5 GAL		2	3/L-500
PMU	PINUS MUGO 'SLOWMOUND' / MUGO PINE	2 GAL		20	3/L-500
RHB	RUBBECKIA HIRTA / BLACK-EYED SUSAN	2 GAL		23	3/L-500
SBL	SPIRAEA BUMALDA 'LIMEMOUND' TM / LIMEMOUND SPIREA	2 GAL		9	3/L-500
TMH	TAXUS MEDIA 'HICKSII' / HICKS YEW	5 GAL		26	3/L-500
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY	DETAIL
	JUNIPERUS HORIZONTALIS / CREEPING JUNIPER	5 GAL	60" o.c.	54	4/L-500

PARKING SHADE CALCULATIONS

DESCRIPTION	QUANTITY
TOTAL PARKING AREA	8,795
TOTAL TREE SHADE	1,019
$1,019 / 8,795 = 0.1159$ OR 11.6% SHADE COVERAGE	

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
2	EXISTING TREE TO PROTECT	1/L-500
3	PROPOSED LIGHT POLE SEE ELECTRICAL FOR MORE INFORMATION	
4	EXISTING LIGHT POLE TO REMAIN	
5	EXISTING IRRIGATION CONTROL VALVE	
6	EXISTING IRRIGATION QUICK COUPLER	
SYMBOL	DESCRIPTION	
[Hatched Box]	NATIVE HYDROSEED	
[Dotted Box]	EXISTING VEGETATION TO REMAIN REPAIR TO EXISTING CONDITION IF DAMAGED DURING CONSTRUCTION.	
[Stippled Box]	EXISTING MULCH TO REMAIN PROVIDE MORE IF AREA IS DISTURBED DURING CONSTRUCTION	



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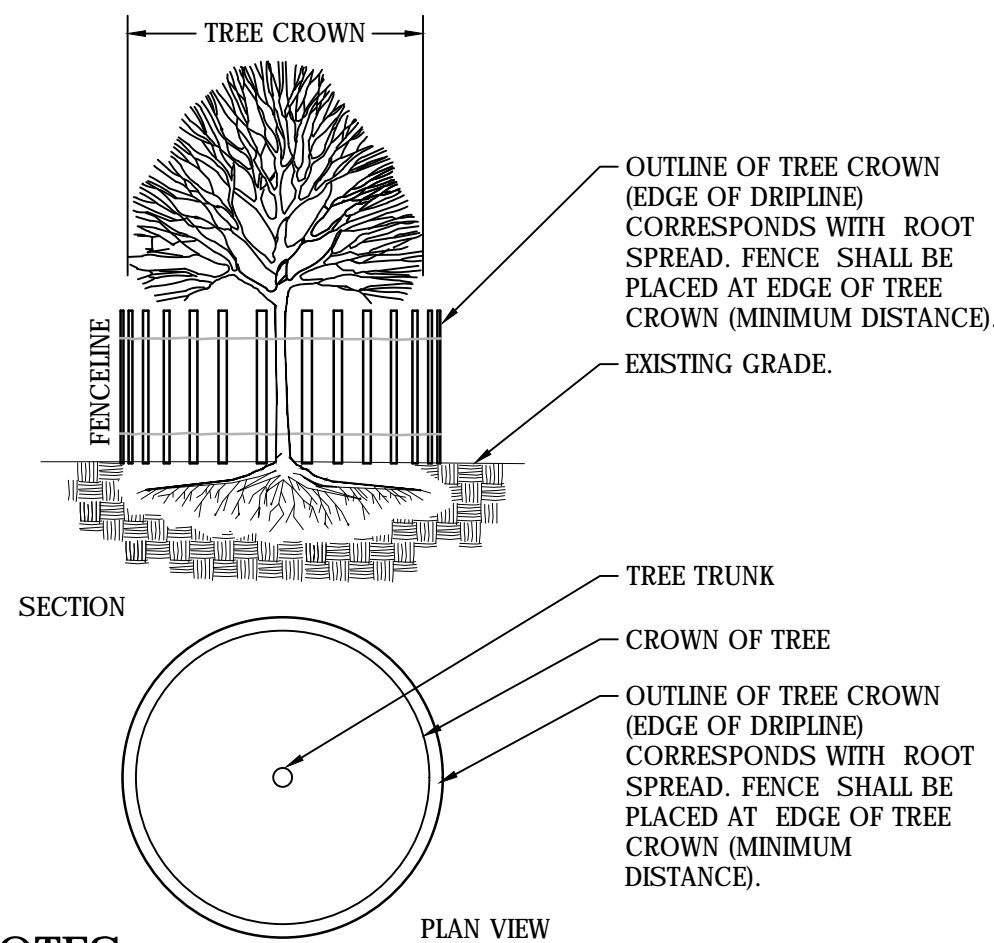
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STATE OF WASHINGTON
 THOMAS C. SHERRY
 Landscape Architect
 No. 489 EXP. 07/08/2017
 LICENSED LANDSCAPE ARCHITECT

LANDSCAPE PLAN
 STA BOONE PARKING LOT ADDITION
 Spokane, Washington

Spokane Transit Authority
 1230 W. Boone Avenue, Spokane, Washington 99201

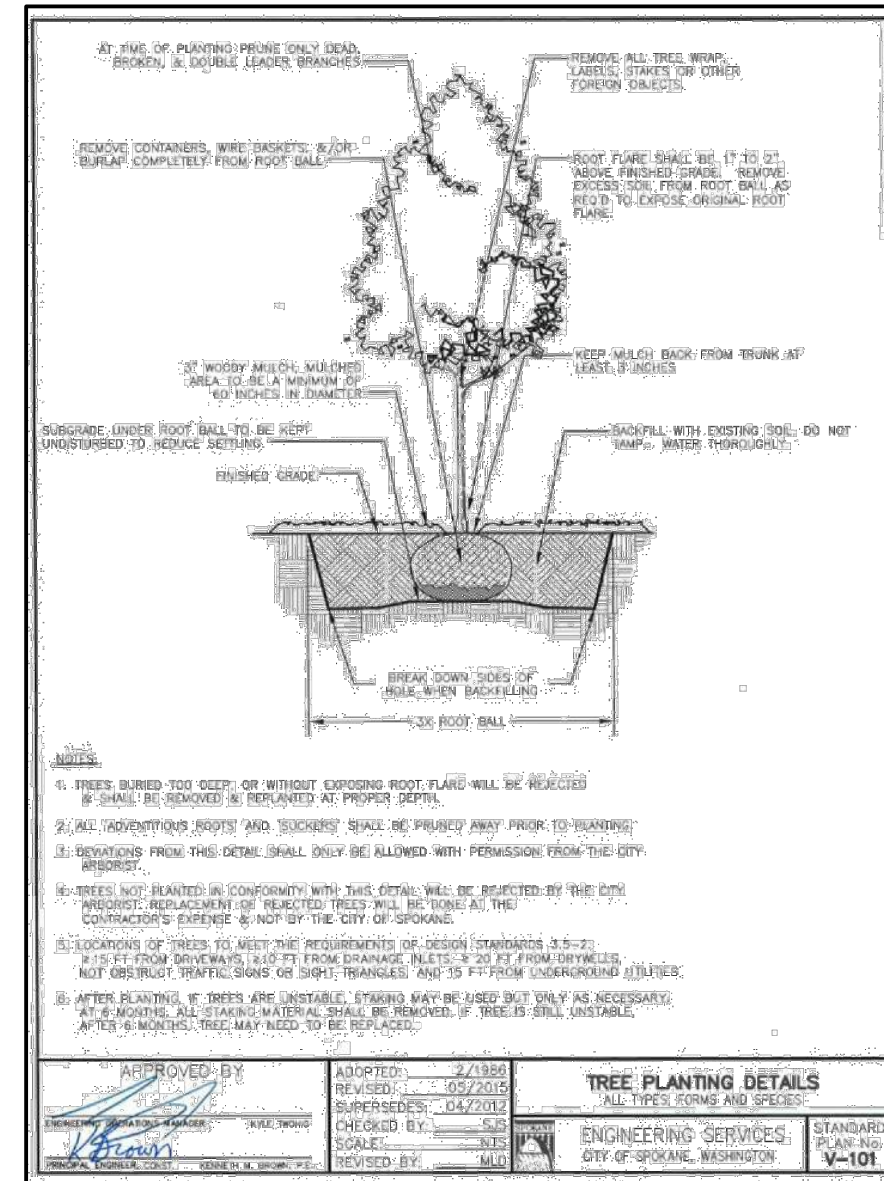
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 CHECKED TCS
 DATE 05/24/17
L-200
 SHEET



NOTES:

1. MAINTAIN PROTECTION UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETED.
2. IF LOWER LIMBS INTERFERE W/ WORK, TIE UP W/ HEAVY JUTE CORD.
3. ADJUST DIAMETER OF PROTECTIVE FENCE TO PREVENT ANTICIPATED DAMAGE BY EQUIPMENT.

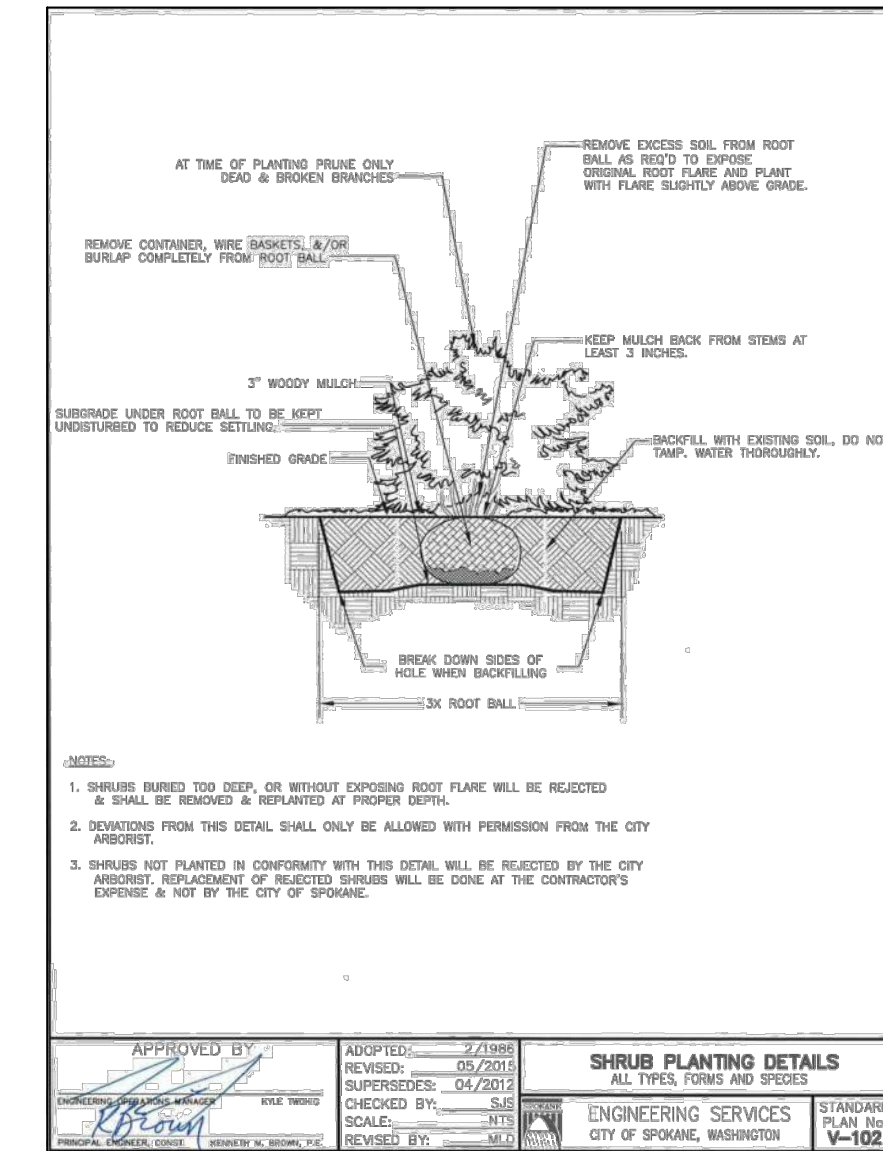
1 TREE PROTECTION NTS



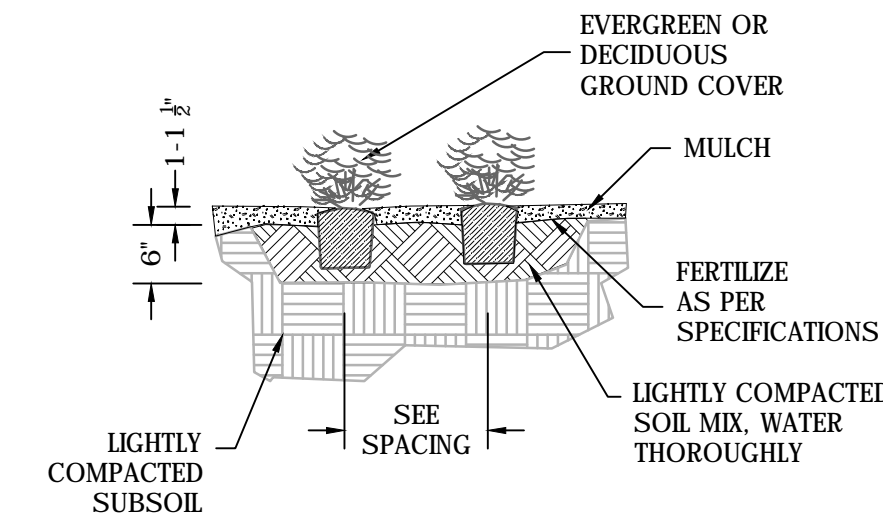
2 CITY OF SPOKANE TREE PLANTING WITH NOTES NTS

- TREE INSTALLATION SUPPLEMENTAL NOTES:**
1. SPVV RECOMMENDS TREE STAKING AND GUYING OF TREES IN SITES EXPOSED TO STRONG WINDS. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE CERTIFIED ARBORIST TO DETERMINE IF SITE CONDITIONS WARRANT STAKING OF TREES AT INSTALLATION AND / OR DURING THE WARRANTY PERIOD.
 2. LOSS OF TREES DUE TO BLOW-OVER AND / OR ROTATION OF THE TREE FOR ANY REASON DURING THE WARRANTY PERIOD ARE THE RESPONSIBILITY OF THE CONTRACTOR / CERTIFIED ARBORIST AND SHALL BE STRAIGHTENED AND REPLANTED PER BEST MANAGEMENT PRACTICES IMMEDIATELY UPON NOTIFICATION. TREES THAT ARE NOT STAKED OR GUYED THAT ARE DAMAGED DUE TO BLOW-OVER / ROTATION SHALL BE REPLACED AT NO COST TO THE OWNER. REPLACEMENT TREES SHALL BE WARRANTED FOR A ONE YEAR PERIOD AFTER THE DATE OF REPLACEMENT. REPLACEMENT SHALL INCLUDE REPAIR AND RESTORATION OF LANDSCAPES DAMAGED AS PART OF THE TREE REPLACEMENT PROCESS.
 3. LIABILITY DUE TO PERSONAL INJURY, PROPERTY DAMAGE AND LOSS OF USE DUE TO TREES BLOWING / ROTATING OVER DURING THE WARRANTY PERIOD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR / CERTIFIED ARBORIST.

3 CITY OF SPOKANE SHRUB PLANTING NTS



3 CITY OF SPOKANE SHRUB PLANTING NTS



NOTES:

1. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
2. FERTILIZE W/ ORGANIC FERTILIZER PRIOR TO PLACING MULCH MATERIAL.
3. EDGING SHALL BE INSTALLED TO CREATE SMOOTH TRANSITIONS BETWEEN GRADE CHANGES.
4. PRIOR TO PLACEMENT REMOVE ALL NON ORGANIC WRAPPING AND BINDING MATERIALS.

4 GROUND COVER PLANTING NTS



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SPOKANE, WA 99205
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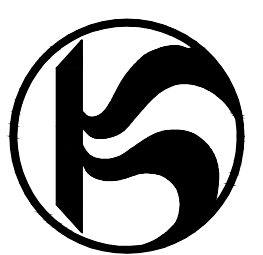
STAMP

LANDSCAPE DETAILS

STA BOONE PARKING LOT ADDITION
Spokane, Washington

SHEET TITLE

Spokane Transit Authority
1230 W. Boone Avenue, Spokane, Washington 99201



REVISIONS		
No.	Date	By

PROJ. NO. 17-STA-575
DRAWN LLT
CHECKED TCS
DATE 05/24/17

L-500

SHEET