

PORT OF TACOMA

PCT TRUCK STAGING PROJECT NO. 091606 CONTRACT NO. 070287

PORT COMMISSIONERS:

CONSTANCE T. BACON
DON MEYER
DONALD C. JOHNSON
RICHARD P. MARZANO
CLARE PETRICH

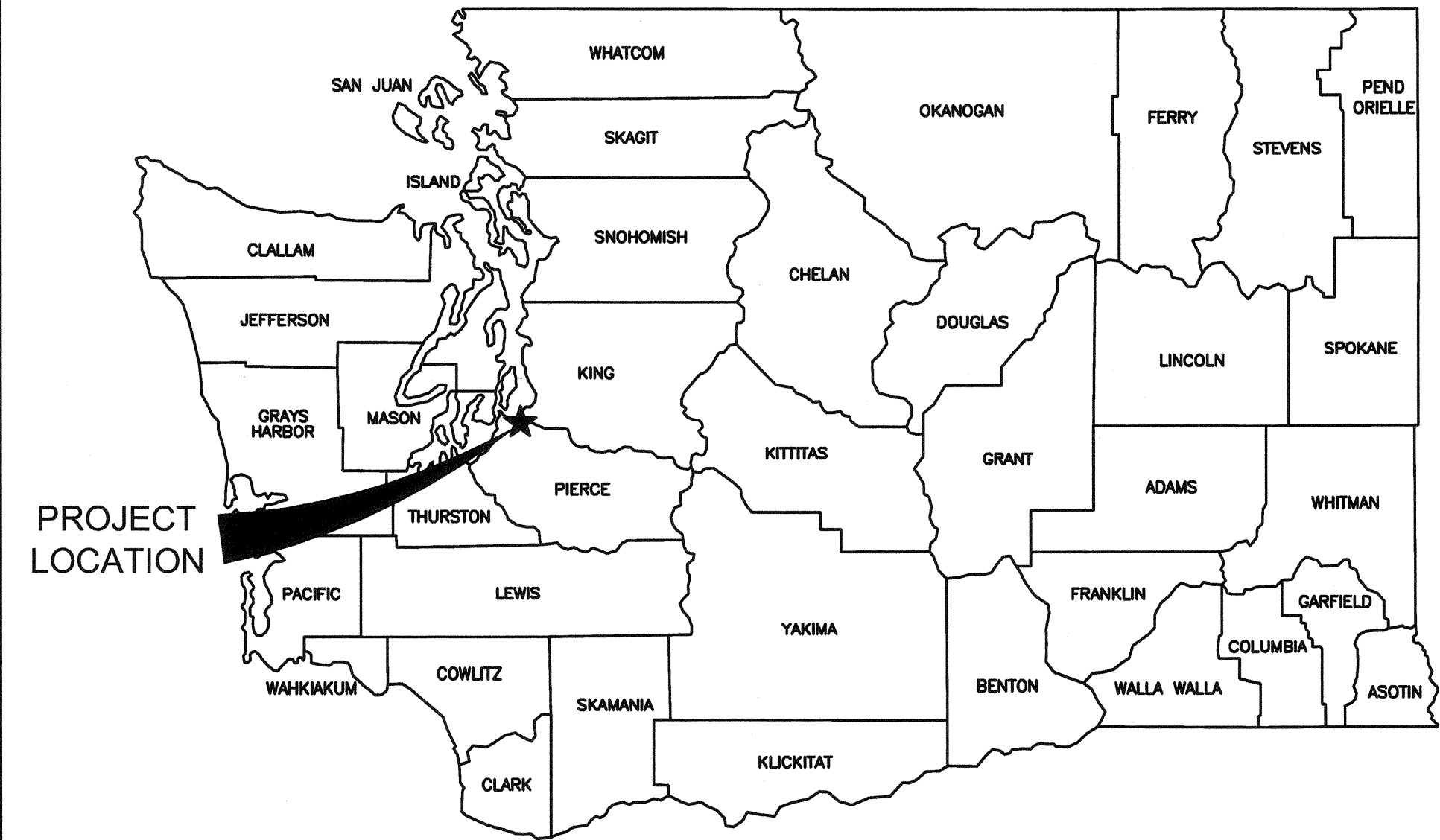
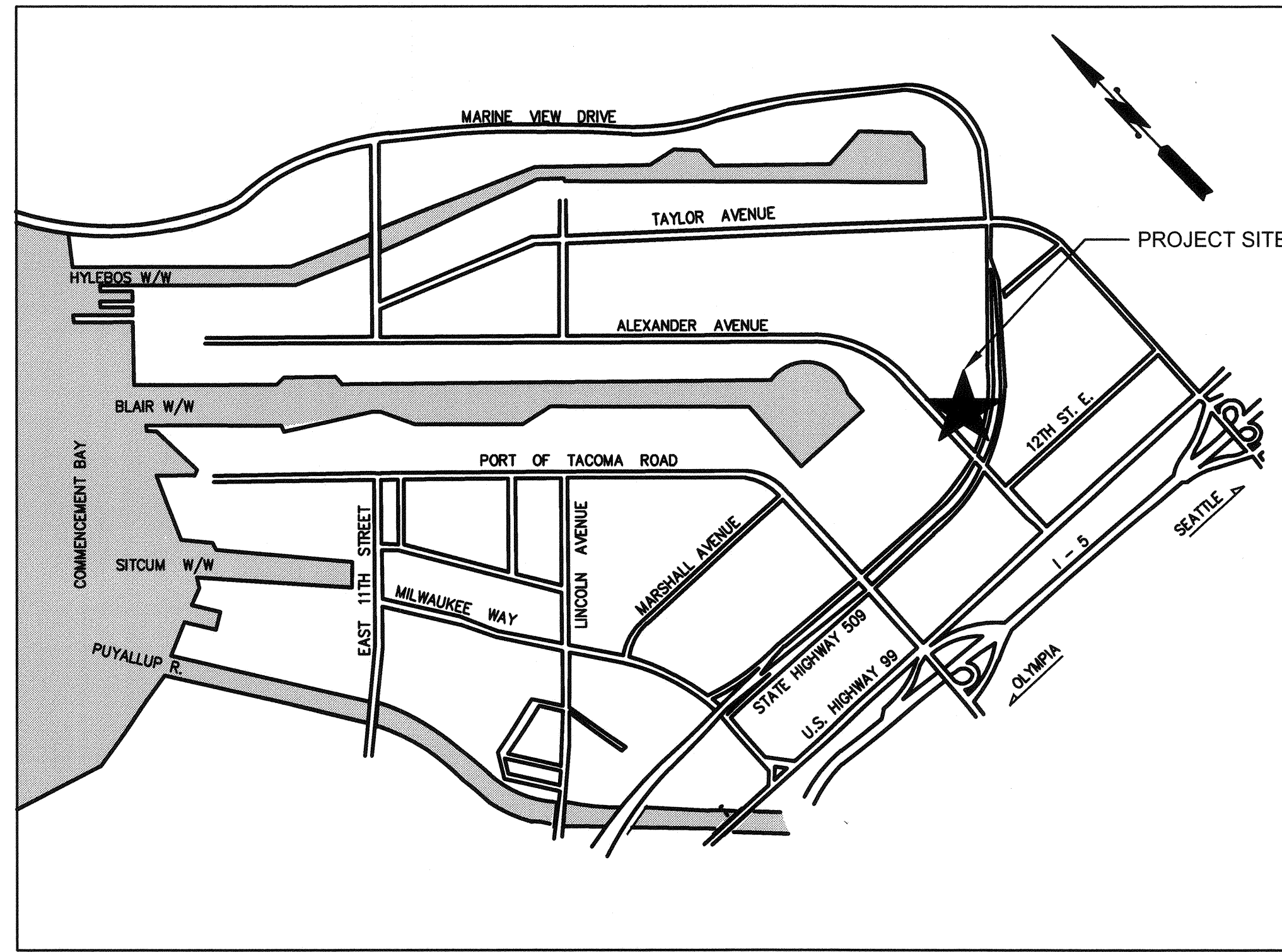
PORT STAFF:

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Chief Executive Officer

DAKOTA CHAMBERLAIN, PE
Chief Facilities Development
Officer

THAIS HOWARD, PE
Director of Engineering

PEDRO REYES, PE
Project Manager



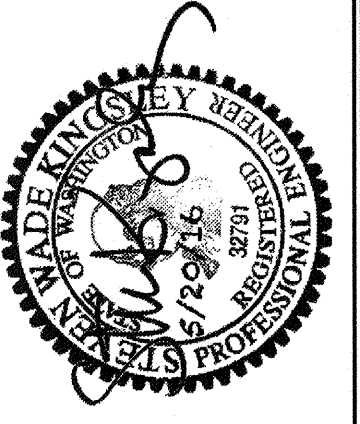
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<i>Thais Howard</i>	CHECKED BY	DATE
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	DIRECTOR/ENG. DATE	PROJ. ENGR DATE
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	PORT ADDRESS: ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

6556 G1	PCT TRUCK STAGING	
	COVER SHEET	
	TOWNSHIP: 20N	SECTION: 01
	DATE-HRZ:	RANGE: 03E
	PARCEL: 5000350150	VERT: DRAWING SCALE: AS NOTED
SHEET 1 OF 53	CONTRACT/CONS: 070287	PHASE: 100%

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0152

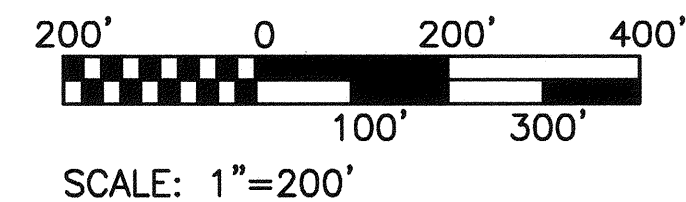
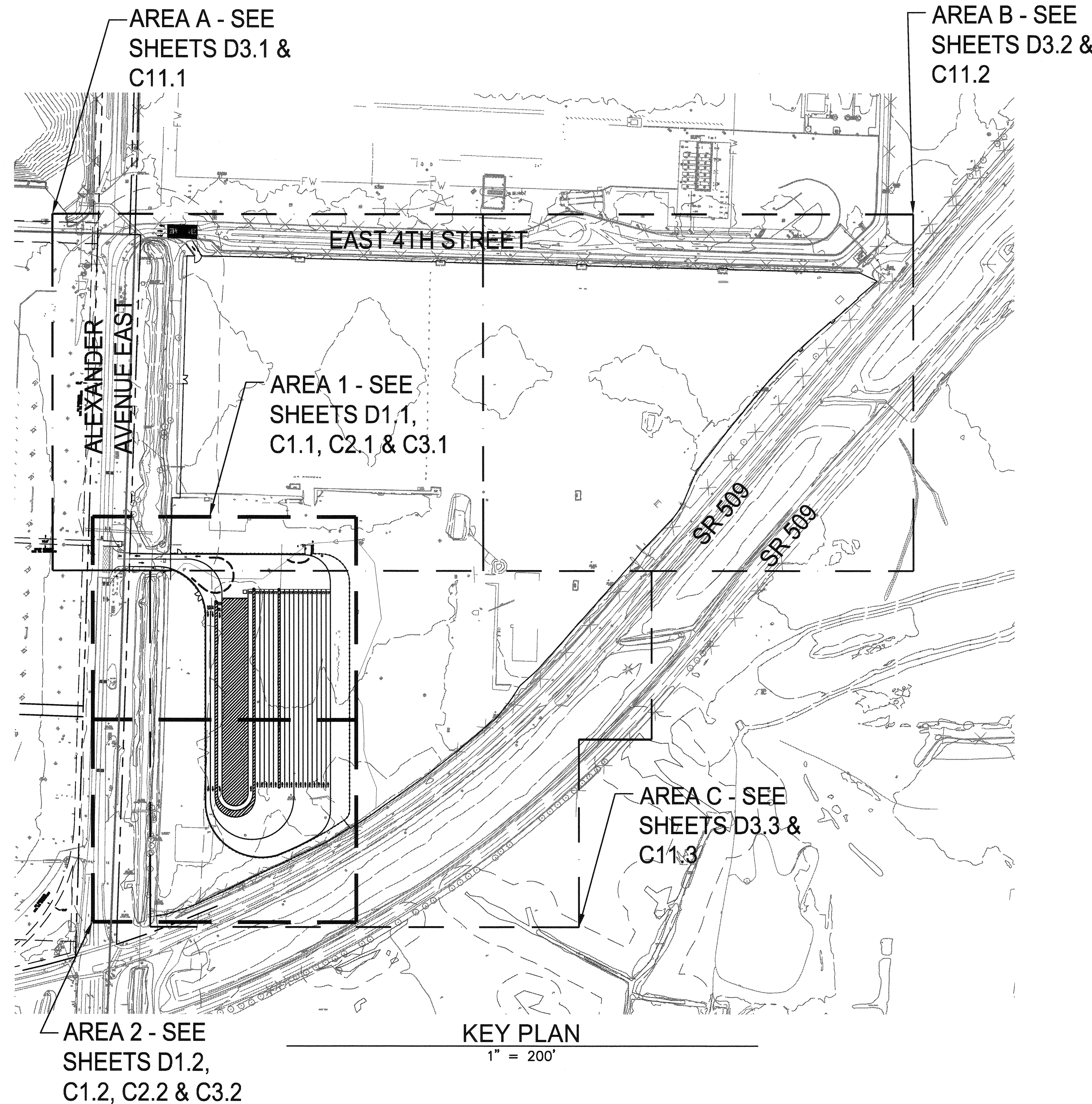
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DRAWING LIST		
SHEET #	SHEET DESIGNATION	SHEET TITLE
GENERAL		
1	G1	COVER SHEET
2	G2	KEY PLAN AND SHEET INDEX
3	G3	LEGEND, NOTES AND ABBREVIATIONS
4	G4	OVERALL SITE PLAN
PCT DEMOLITION		
5	D1.1	PCT DEMOLITION & TESC PLAN - AREA 1
6	D1.2	PCT DEMOLITION & TESC PLAN - AREA 2
7	D2.0	DEMOLITION & TESC DETAILS AND NOTES
PORTAC DEMOLITION		
8	D3.1	PORTAC DEMO & TESC PLAN - AREA A
9	D3.2	PORTAC DEMO & TESC PLAN - AREA B
10	D3.3	PORTAC DEMO & TESC PLAN - AREA C
PCT CIVIL		
11	C1.1	PCT SITE PLAN - AREA 1
12	C1.2	PCT SITE PLAN - AREA 2
13	C2.1	PCT GRADING & PAVING PLAN - AREA 1
14	C2.2	PCT GRADING & PAVING PLAN - AREA 2
15	C3.1	PCT UTILITY PLAN - AREA 1
16	C3.2	PCT UTILITY PLAN - AREA 2
17	C4.0	PCT SITE SECTIONS
18	C4.1	PCT SITE SECTIONS
19	C4.2	PCT SITE SECTIONS
20	C4.3	PCT SITE SECTIONS
21	C5.0	PAVING DETAILS
22	C5.1	FENCING DETAILS
23	C5.2	FENCING DETAILS
24	C5.3	FENCING DETAILS
25	C5.4	DETAILS
26	C5.5	DETAILS
27	C5.6	STORMWATER DETAILS
28	C5.7	STATION OFFSET AND CONTROL TABLES
29	C5.8	ENLARGED SITE PLAN
PORTAC CIVIL		
30	C10.0	PORTAC OVERALL SITE PLAN
31	C11.1	PORTAC SITE PLAN - AREA A
32	C11.2	PORTAC SITE PLAN - AREA B
33	C11.3	PORTAC SITE PLAN - AREA C
34	C11.4	PORTAC HORIZONTAL CONTROL
35	C12.1	PORTAC DETAILS
36	C12.2	PORTAC SITE SECTIONS
37	C12.3	PORTAC DETAILS
ELECTRICAL		
38	E1.0	PARTIAL ELECTRICAL SITE PLAN - AREA 1
39	E1.1	PARTIAL ELECTRICAL SITE PLAN - AREA A
40	E2.0	PCT GATE ELECTRICAL DETAILS
41	E3.0	PORTAC GATE ELECTRICAL DETAILS

DRAWING LIST CONTINUED		
SHEET #	SHEET DESIGNATION	SHEET TITLE
WORK ORDER		
42	1	COVER SHEET
43	2	SURVEY
44	3	SURVEY
45	4	DEMOLITION AND TESC PLAN
46	5	DEMOLITION AND TESC PLAN
47	6	TESC DETAILS
48	7	PAVING-UTILITY PLAN
49	8	CHANNELIZATION AND SIGNAGE PLAN
50	9	CHANNELIZATION AND SIGNAGE PLAN
51	10	DRIVEWAY SECTIONS
52	11	DETAILS
53	12	WORK ORDER GENERAL NOTES



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Tacoma, Washington 98407
(253) 396-0130 Fax (253) 396-0162

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PRINTED BY: rchandler May 20, 2016

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PCT TRUCK STAGING

KEY PLAN AND SHEET INDEX

TOWNSHIP: 20N

RANGE: 03E

SECTION: 01

DATE-HRZ: _____

VERT: _____

DRAWING SCALE: AS NOTED

PARCEL: 5000350150

6556

G2

SHEET 2 OF 53

CONT/CONS: 070287

M. ID: _____

PHASE: 100%

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SURVEY LEGEND:

Table with 2 columns: Symbol and Description. Includes Building Outline with Door, Concrete Surface, Asphalt Surface, Wall, Edge of Asphalt, Edge of Gravel, Cyclone Fence Line, Bollard, Overhead Light, Catch Basin/Area Drain, and Monitoring Well.

NOTES:

- 1. VERTICAL DATUM: PORT OF TACOMA BENCHMARK: 2-1/2 INCH BRASS DISK AT THE SOUTHEAST CORNER OF THE INTERSECTION OF MILWAUKEE WAY AND FRONTAGE ROAD. BENCHMARK NO. 846 ELEVATION = 15.26'
2. BASIS OF BEARINGS FOR THIS SURVEY IS THE PORT OF TACOMA BLAIR-HYLEBOS PENINSULA SURVEY CONTROL MAP.
3. THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY. EASEMENTS MAY EXIST ON THE PROPERTY BUT ARE NOT SHOWN IN THIS MAP.
4. UTILITY LOCATIONS SHOWN ARE PER FIELD LOCATED UTILITY PAINT MARKS & REFERENCE MAPS MADE AVAILABLE BY THE VARIOUS UTILITY PROVIDERS. UNLESS INDICATED, DEPTHS OF UTILITY LINES ARE NOT AVAILABLE. ALL UTILITY LOCATIONS SHOULD BE FIELD VERIFIED (POTHOLED) PRIOR TO CONSTRUCTION.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes #, DIAMETER, AT, AGGREGATE BASE, ASPHALT CONCRETE, ASPHALT CONCRETE INSTITUTE, ADDL, ADJACENT, ADMINISTRATION, AGGR, ALTERNATE, ALUM, AMERICAN NATIONAL STANDARDS INSTITUTE, APPROVED, APPROXIMATE, APWA, AMERICAN PUBLIC WORKS ASSOCIATION, ASTM, AMERICAN SOCIETY FOR TESTING AND MATERIALS, AUTO, AVE, AVG, AWS, AWWA, BFO, BLDG, BM, BOP, BOT, BRG, BRZ, BTW, BTWN, CAB, CB, CC, CFS, CIP, CL, CLF, CLR, CMB, CMP, CO, COMPR, CONC, CONST, CONT, CONT'D, CONTR, COORD, COUP, CSBC, CSG, CSP, CTR, Dc, DEMO, DIA, DIAG, DIM, DIP, DTL, DOE, DWG, DWY, E, EA, EG, EL, ENGR, EP, ETC.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes EX or EXIST, EXP, JT, EW, FF, FG, FH, FIN, FM, FS, FSM, FT, FTZ, G, GALV, GIS, GPS, GV, H, HORIZ, HAZMAT, HDPE, HMA, HORZ, HOWL, HP, HSSD, HT, ID, IE, IN, INFO, INV, JB, JS, JT, KIP(S), KSI, L, LAT, LB, LF, LH, LIN, LOL, LP, LT, LTP, M&R, MAX, MH, MIL, MIN, MISC, MJ, MNSB, MWS, N, NE, NGAS, NIC, No., NTS, NW, OC, OD, OVH, P/L, PL, PB, PCC, PCT, PERF, PERP, PG, PL, POT, POV, PP, PR, PRESS, PRESS RED.

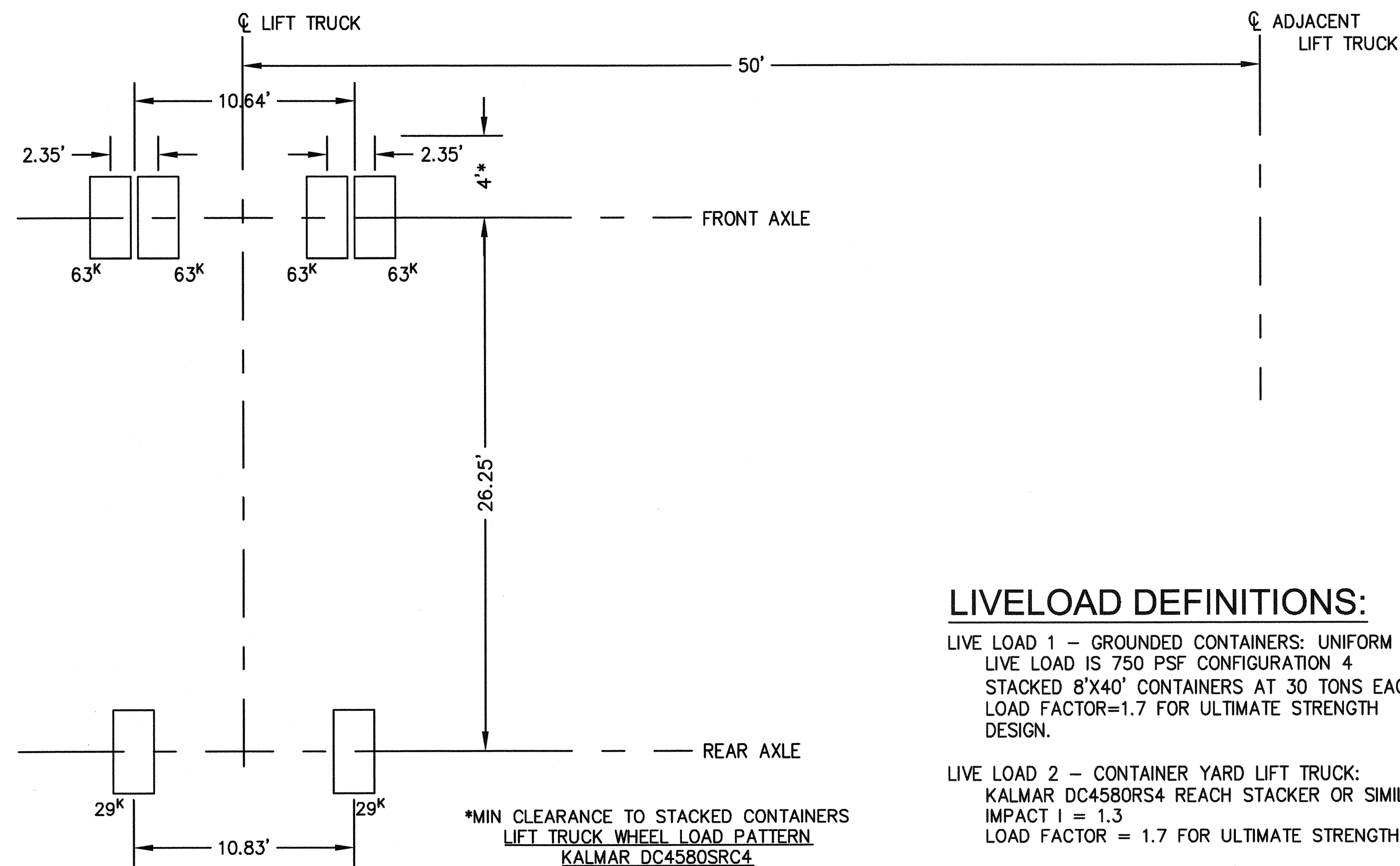
ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes PROP, PRV, PRVS, PSF, PS, PSI, PT, PVC, PVM, R, R/W, RCC, RCP, RD, RED, REF, REINF, REQ'D, RH, RP, RR, S, SCH, SD, SDMH, SE, SECT, SERV, SHT, SIM, SPECS, SQ, SQFT, SS, SSMH, STA, STD, STL, SW, SYM, TB, TBM, TESC, T&B, TG, TOB, TOS, TOP, TPU, TR, TS, TW, TYP, UB, UNO, UV, V, VAR, VC, VERT, W, W/O, WELD, WHS, WM, WP, WSDOT, WT, WWAY.

UNDERGROUND UTILITY STRUCTURES DESIGN LOADING CRITERIA:

- 1. ALL UNDERGROUND AND AT GRADE UTILITY STRUCTURES INCLUDING MANHOLES, CATCH BASINS, HAND HOLES, VAULTS AND OTHER STRUCTURES, INCLUDING ALL RINGS, COVERS, HATCHES, GRATES AND OTHER FEATURES WHICH MAY APPLY, SHALL BE DESIGNED TO ACCOMMODATE THE LOAD CRITERIA SHOWN ON THIS SHEET EXCEPT FOR EXISTING CATCH BASIN AND OTHER STRUCTURES THAT WILL BE RAISED TO FINISHED GRADE.
2. STANDARD PLAN REFERENCES AND MANUFACTURER MODEL NUMBERS FOR UNDERGROUND UTILITY STRUCTURES ARE INTENDED TO PROVIDE INTERIOR GEOMETRY AND INTENT ONLY.
3. SOIL DESIGN CRITERIA (BASED ON IBC 2012 MINIMUMS, AS NO GEOTECH REPORT IS PROVIDED): VERTICAL BEARING PRESSURE = 2500 PSF, ACTIVE PRESSURE = 85 PSF X H, SEISMIC PRESSURE = 9H, ASSUMES K_a = 0.6, H = STRUCTURE HEIGHT, COEFFICIENT OF FRICTION, U=0.25
4. DEAD LOAD SHALL BE APPLIED TO ALL STRUCTURES WHICH INCLUDE THE WEIGHT OF THE CONSTRUCTION MATERIALS AND THE SOIL.
5. LIVE LOADS 1 AND 2 SHALL ACT SIMULTANEOUSLY AND IN COMBINATION WITH DEAD LOADS AND HYDROSTATIC PRESSURE WHEN DESIGNING UTILITY STRUCTURES WITHIN THE LIMITS OF THE SITE.

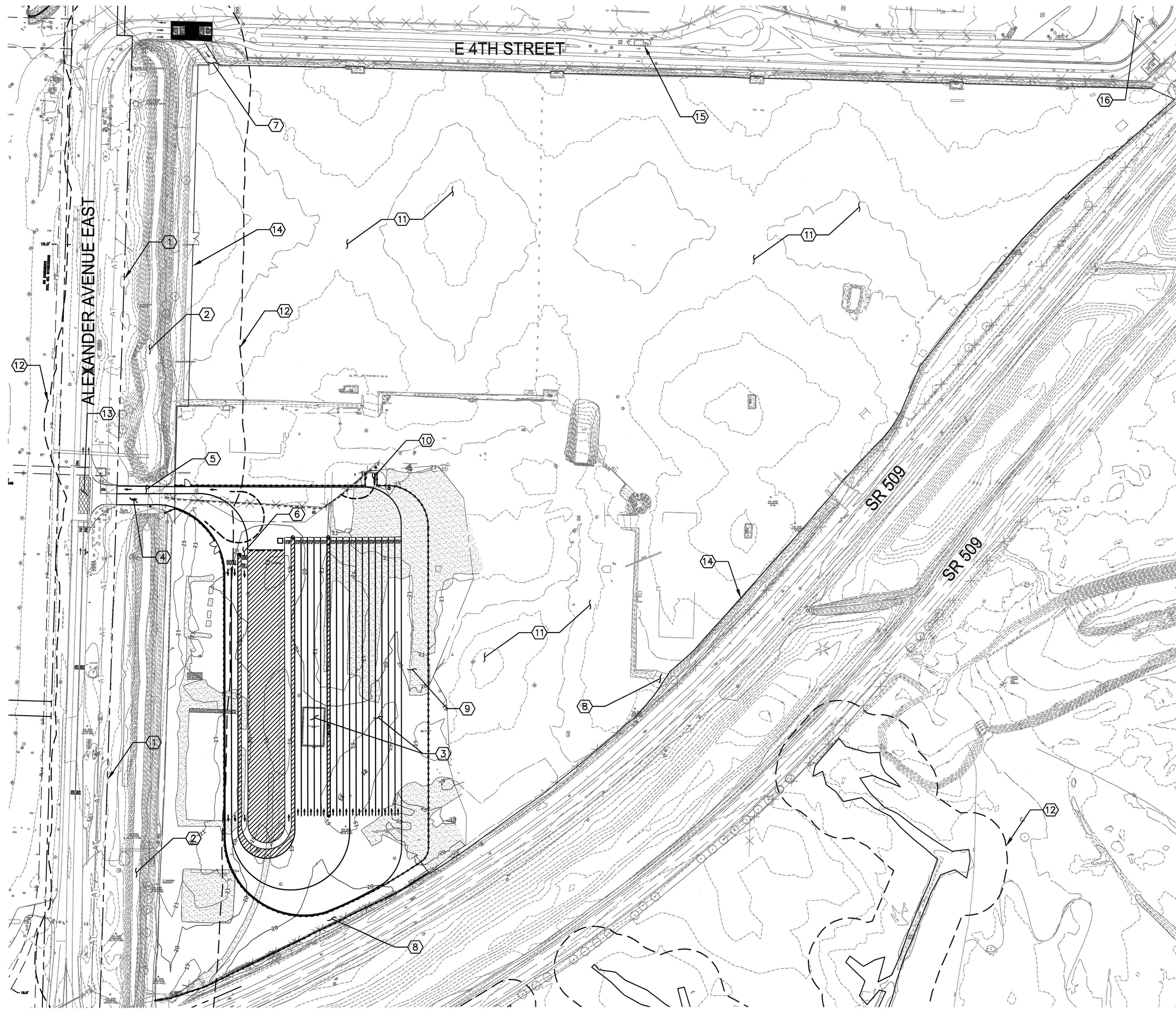
LOADINGS SHALL ACT SIMULTANEOUSLY, BUT NEED NOT OCCUPY THE SAME SPACE. WHEEL LOAD CRITERIA CONFIGURATION FOR CONTAINER LIFT TRUCK SHALL BE ARRANGED IN PROXIMITY TO THE STACKED CONTAINERS TO RESULT IN THE LARGEST DESIGN REQUIREMENT FOR THE UTILITY STRUCTURE. SEE FIGURE 1 FOR LIFT TRUCK PROXIMITY TO STACKED CONTAINER REQUIREMENTS.



LIVELOAD DEFINITIONS:

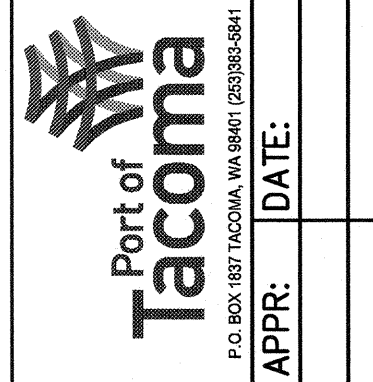
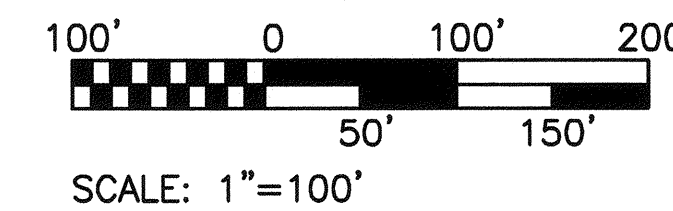
LIVE LOAD 1 - GROUNDED CONTAINERS: UNIFORM LIVE LOAD IS 750 PSF CONFIGURATION 4 STACKED 8'X40' CONTAINERS AT 30 TONS EACH. LOAD FACTOR=1.7 FOR ULTIMATE STRENGTH DESIGN.
LIVE LOAD 2 - CONTAINER YARD LIFT TRUCK: KALMAR DC4580RS4 REACH STACKER OR SIMILAR IMPACT I = 1.3 LOAD FACTOR = 1.7 FOR ULTIMATE STRENGTH

Professional Engineer Seal for K. J. P. (KIPFF). Project information: 6556, G3, SHEET 3 OF 53, CONT/CONS: 070287, M. ID., PHASE: 100%. Approval and revision table with dates and initials. Legend and abbreviations section. Drawing scale: AS NOTED. Drawing number: 5000350150. Address: ONE SITJUM PLAZA, TACOMA, WA 98401-1837.



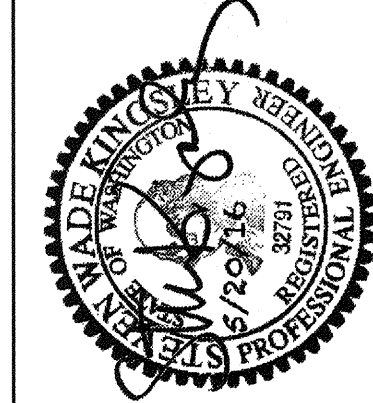
KEYNOTES:

- ① CITY ROW LINE
- ② WAPATO CREEK
- ③ TRUCK QUEUE LANES
- ④ TRUCK QUEUE ENTRY LANE
- ⑤ TRUCK QUEUE AND AUTO STORAGE EXIT LANE
- ⑥ BOB TAIL LANE
- ⑦ AUTO STORAGE ENTRY
- ⑧ ACCESS TO EAST PORTION OF PORTAC SITE
- ⑨ ADDITIONAL SPACE FOR 4 FUTURE TRUCK QUEUE LANES
- ⑩ AUTO STORAGE EXIT
- ⑪ AUTO STORAGE AREA
- ⑫ 150' STREAM BUFFER
- ⑬ FOR WORK WITHIN CITY ROW, SEE WORK ORDER PERMIT NUMBER 60000041488
- ⑭ FOR WORK RELATED TO PORTAC PERIMETER FENCING, SEE SHEETS D3.1 THRU D3.3 AND C10.0 THRU C12.3
- ⑮ PIERCE COUNTY TERMINAL SECURITY BOOTH
- ⑯ PIERCE COUNTY TERMINAL TRUCK GATE



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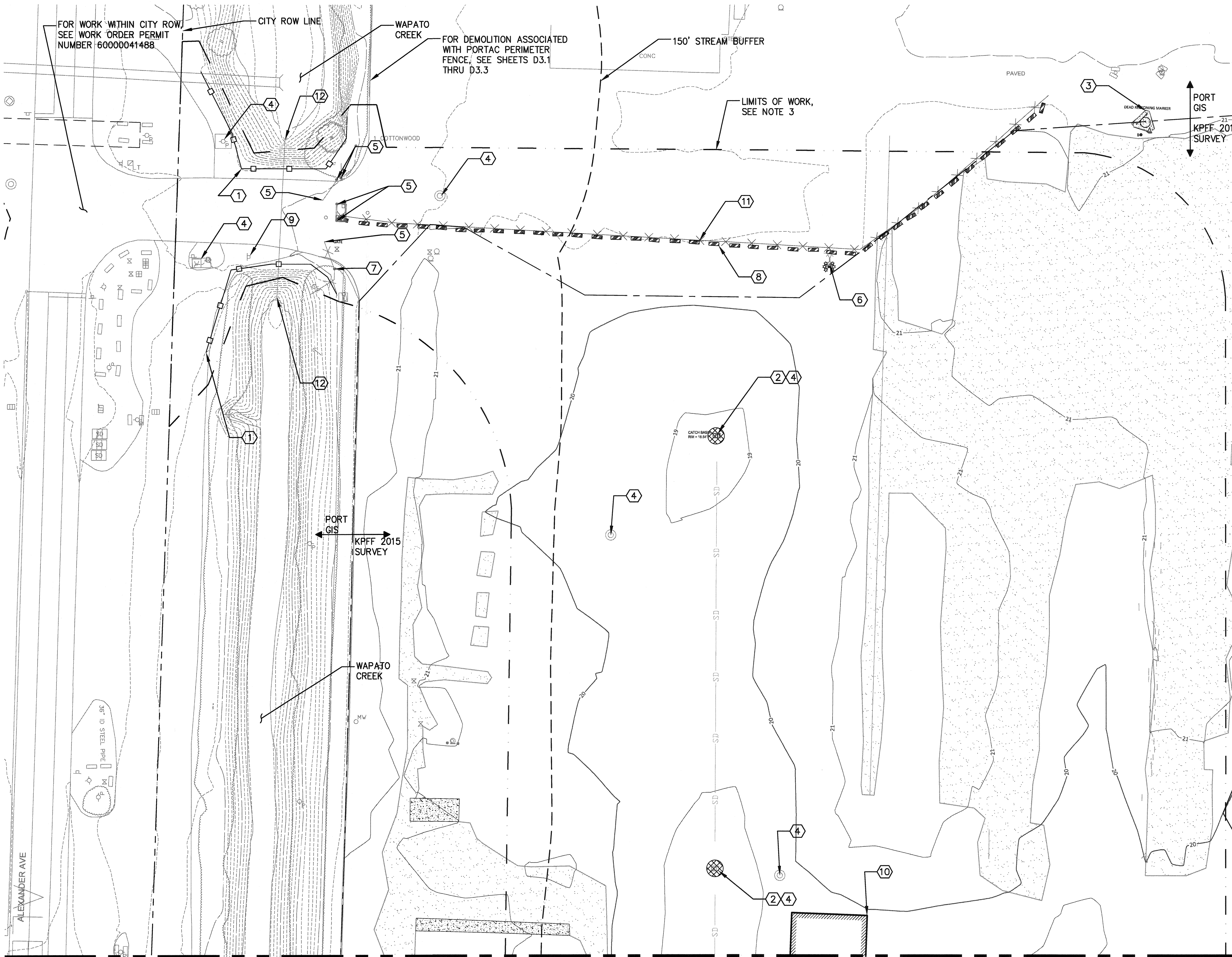
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DIRECTOR/ENG. DATE 6/2/16 RGC 05/20/2016
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PCT TRUCK STAGING
OVERALL SITE PLAN

TOWNSHIP: 20N RANGE: 03E SECTION: 01
DATE-HRZ: VERT:
PARCEL: 5000350150 DRAWING SCALE: AS NOTED

6556
G4
SHEET 4 OF 53
CONT/CONS: 070287
M. ID:
PHASE: 100%

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MATCH LINE - SEE SHEET D1.2

KEY NOTES:

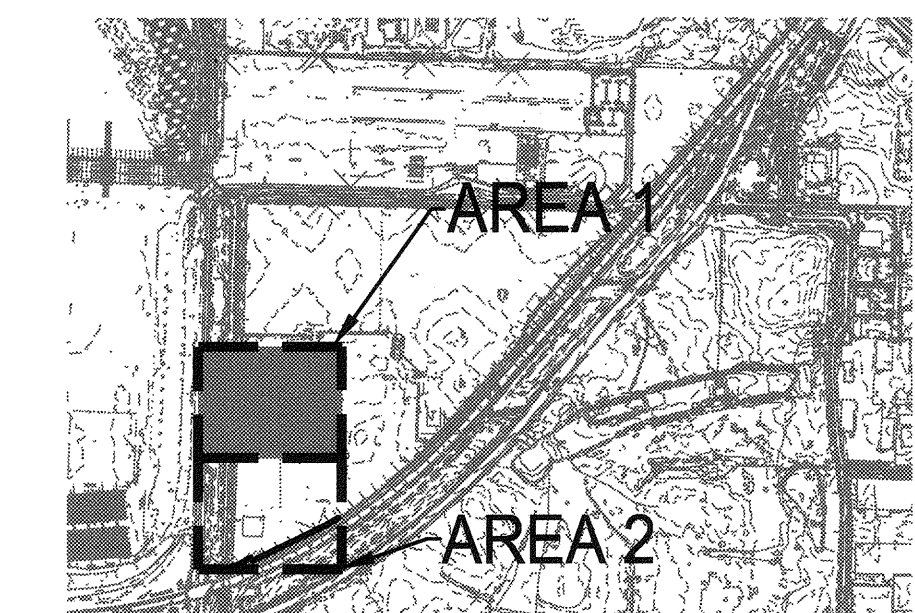
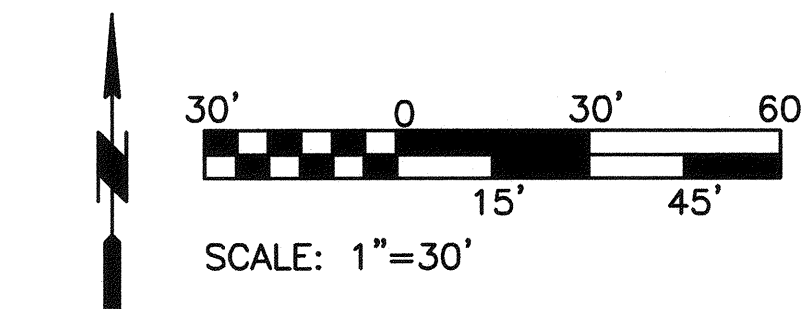
- 1 STRAW WATTLE
- 2 INLET PROTECTION
- 3 PROTECT-IN-PLACE EXISTING NAVIGATION MARKER
- 4 PROTECT EXISTING UTILITY
- 5 REMOVE EXISTING GATE POST AND DISPOSE
- 6 REMOVE LIGHT POLE AND SALVAGE LIGHT FIXTURE. REFER TO SHEET C3.1 AND E1.0 FOR REINSTALLATION
- 7 PROTECT-IN-PLACE EXISTING GATE POST
- 8 REMOVE AND SALVAGE EXISTING ECOLOGY BLOCKS, SEE SHEET D1.2 FOR STORAGE LOCATION
- 9 PROTECT-IN-PLACE EXISTING SIGN
- 10 EXISTING TEMPORARY BUILDING TO BE REMOVED BY CURRENT TENANT BEFORE CONSTRUCTION BEGINS
- 11 TEMPORARY FENCE IS RENTED, CONTRACTOR TO COORDINATE WITH SUPPLIER FOR REMOVAL OF FENCE PRIOR TO THE START OF CONSTRUCTION
- 12 PROTECT EXISTING CULVERT OUTLET

NOTES:

- 1. EXISTING SITE ENTRANCE SHALL BE USED AS CONSTRUCTION ENTRANCE.
- 2. LARGE DEBRIS AND CONCRETE RUBBLE SHALL BE REMOVED FROM PAVEMENT SURFACE WITHIN WORK LIMITS.
- 3. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING ON NORTH AND EAST SIDE OF LIMITS OF WORK TO MAINTAIN A SECURE BARRIER BETWEEN WORK AREA AND AUTO STORAGE AREA THROUGHOUT DURATION OF CONSTRUCTION.

LEGEND:

- DEMO EX FENCE
- STRAW WATTLES (2 D2.0)
- LIMITS OF WORK
- INLET PROTECTION (1 D2.0)
- EXISTING GRAVEL SURFACE
- EXISTING ECOLOGY BLOCK

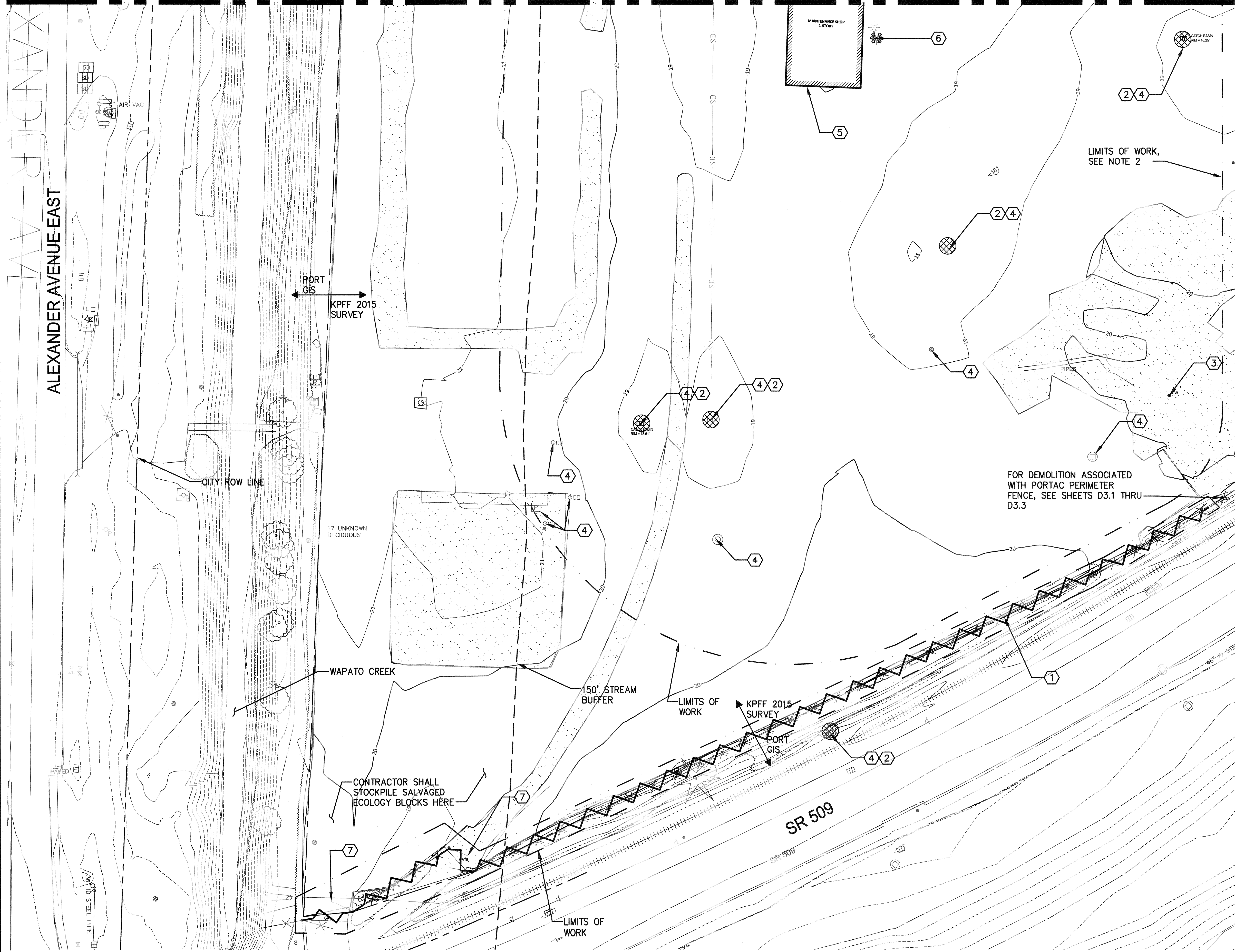


KEY PLAN
NTS

 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 960-0130 Fax (253) 960-0152			SWK 05/20/2016 CHECKED BY DATE
	APPROVED: <i>[Signature]</i> DIRECTOR/ENG. DATE 6/2/16	RGC 05/20/2016 PROJ. ENGR. DATE	PRINTED BY: rchandler May 20, 2016 PORT ADDRESS: ONE SITCHUM PLAZA TACOMA, WA 98401-1837
6556 D1.1 SHEET 5 OF 53	PCT TRUCK STAGING PCT DEMOLITION & TESC PLAN - AREA 1		
M. ID: 070287 PHASE: 100%	TOWNSHIP: 20N DAT-HRZ:	RANGE: 03E VERT:	SECTION: 01 DRAWING SCALE: AS NOTED

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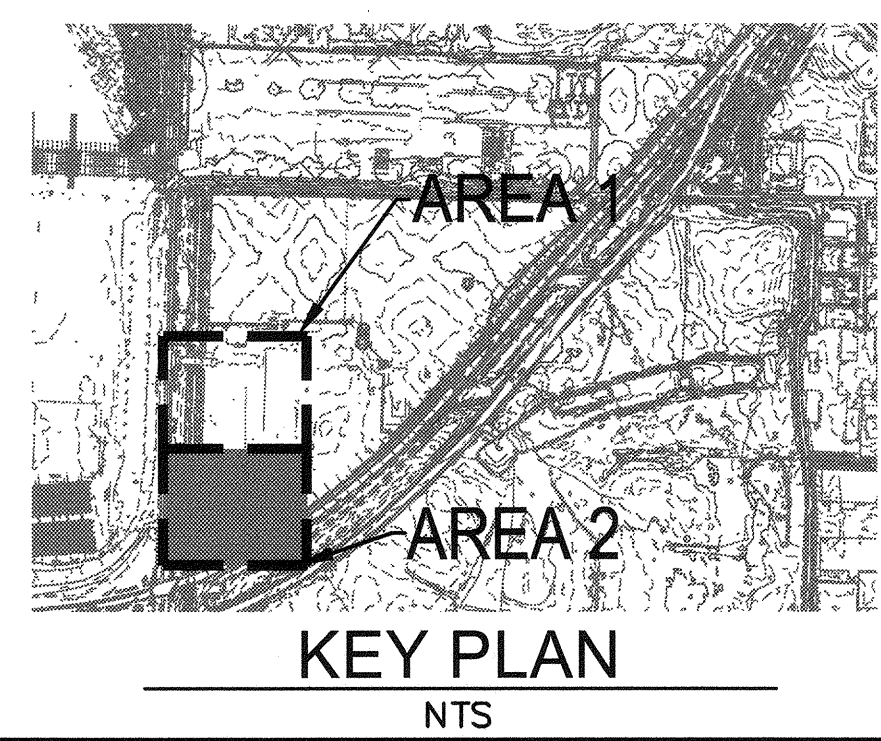
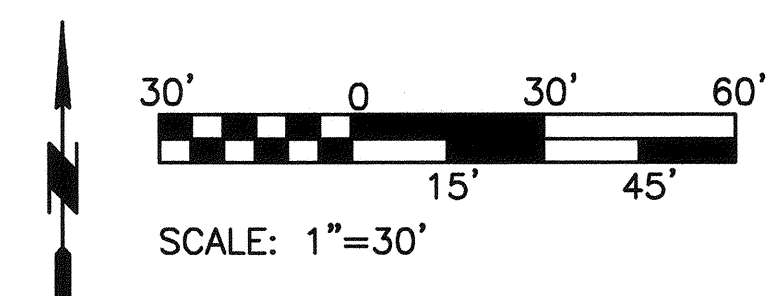
MATCH LINE - SEE SHEET D1.1



- KEY NOTES:**
- 1 REMOVE EXISTING FENCE AND DISPOSE
 - 2 INLET PROTECTION
 - 3 PROTECT MONITORING WELL
 - 4 PROTECT EXISTING UTILITY
 - 5 EXISTING TEMPORARY BUILDING TO BE REMOVED BY CURRENT TENANT BEFORE CONSTRUCTION BEGINS
 - 6 PROTECT-IN-PLACE EXISTING LIGHT POLE
 - 7 REMOVE EXISTING GATE AND DISPOSE

- NOTES:**
1. LARGE DEBRIS AND CONCRETE RUBBLE SHALL BE REMOVED FROM PAVEMENT SURFACE WITHIN LIMITS OF WORK.
 2. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING ON NORTH AND EAST SIDE OF LIMITS OF WORK TO MAINTAIN A SECURE BARRIER BETWEEN WORK AREA AND AUTO STORAGE AREA THROUGHOUT DURATION OF CONSTRUCTION.

- LEGEND:**
- DEMO EX FENCE
 - COMPOST SOCK
 - LIMITS OF WORK
 - INLET PROTECTION
 - EXISTING GRAVEL SURFACE
 - EXISTING ECOLOGY BLOCK

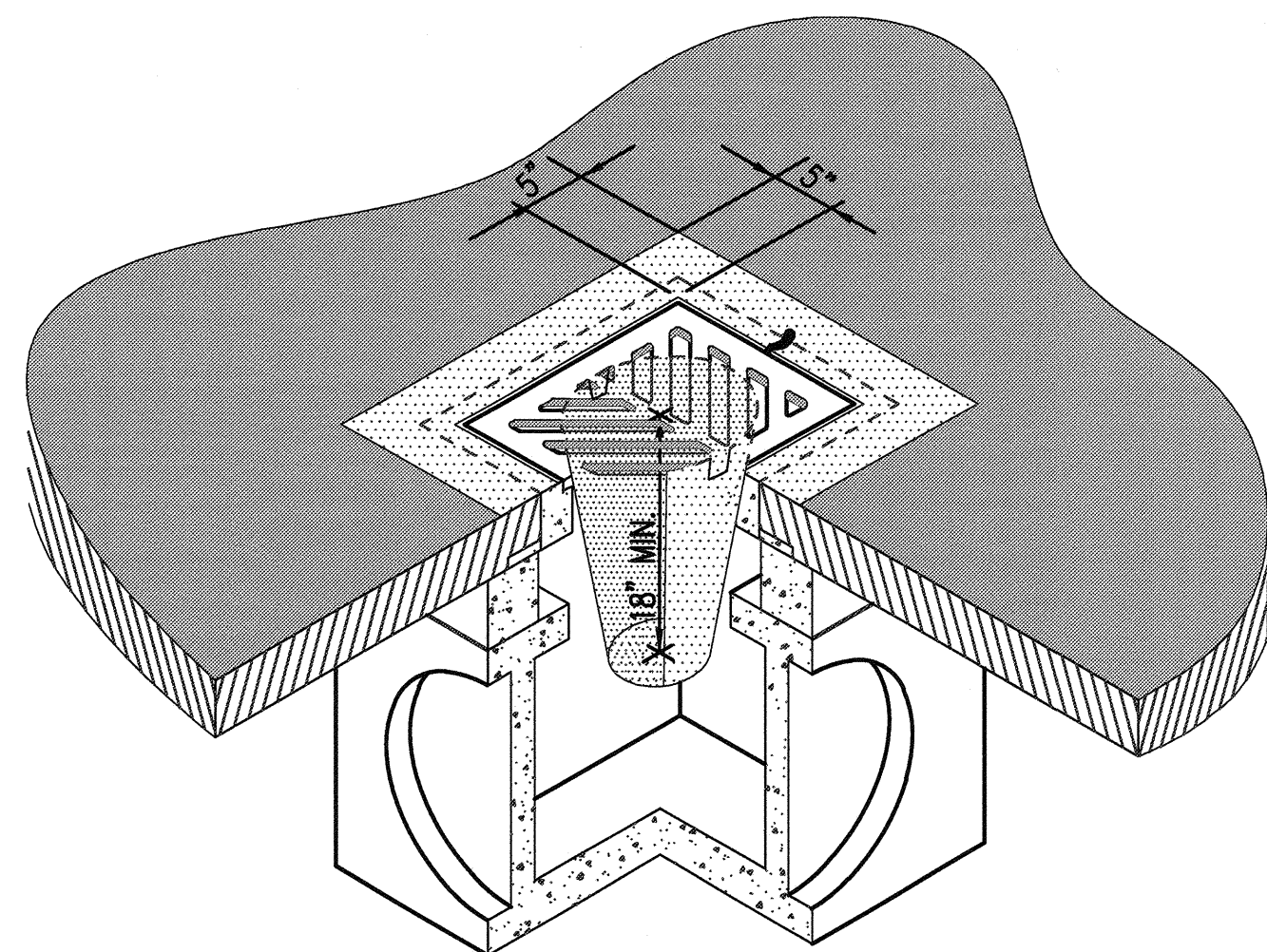


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	APPROVED: <i>Michael Reynolds</i> DIRECTOR/ENG. DATE 6/2/16 PRINTED BY: rchandler May 20, 2016 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	MARK: REVISION: BY: DATE:
6556 D1.2 SHEET 6 OF 53 CONT./CONS: 070287 M. ID: PHASE: 100%	PCT TRUCK STAGING PCT DEMOLITION & TESC PLAN - AREA 2	TOWNSHIP: 20N DAT-HRZ: PARCEL: 5000350150 DRAWING SCALE: AS NOTED

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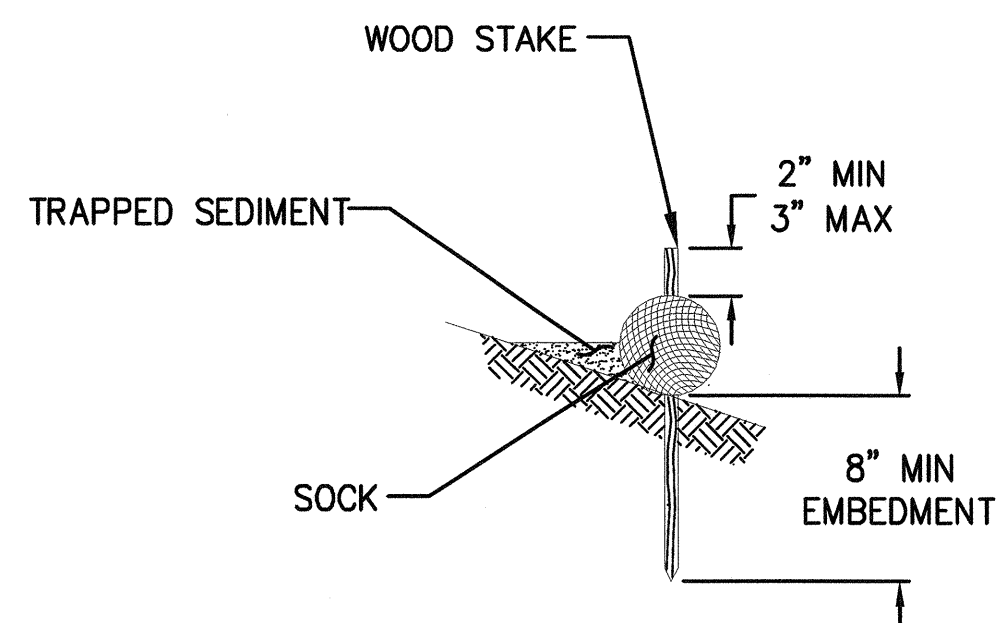
NOTES:

- INSERT SHALL BE INSTALLED IN ALL OPERATIONAL CATCH BASINS WITHIN 100 FEET OF WORK LIMITS PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
- FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN IT IS 1/3 FULL.
- SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING INTO APPROPRIATE DISPOSAL LOCATION, AND REINSERTING IT INTO THE CATCH BASIN.



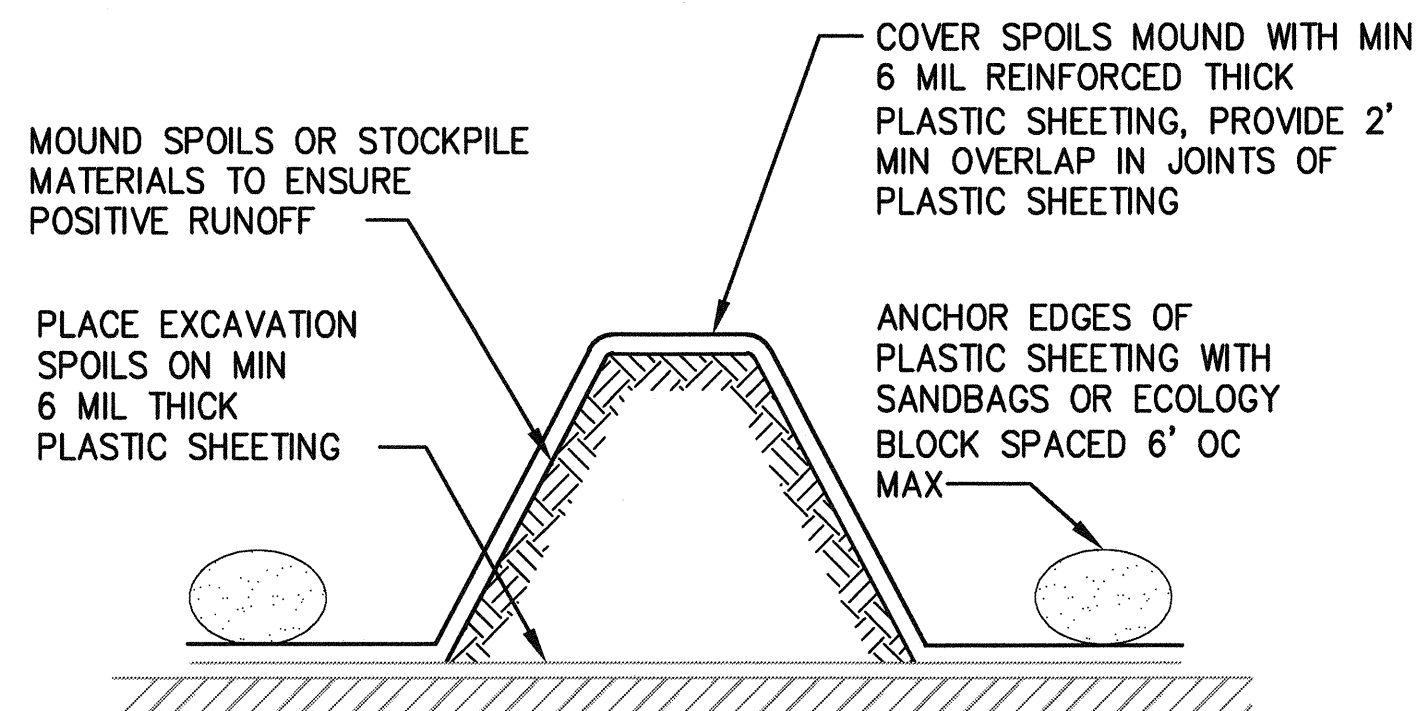
1 INLET PROTECTION DETAIL

D1.1-D1.2, D3.1-D3.3 SCALE: NTS



2 COMPOST SOCK DETAIL

D1.1-D1.2 SCALE: NTS

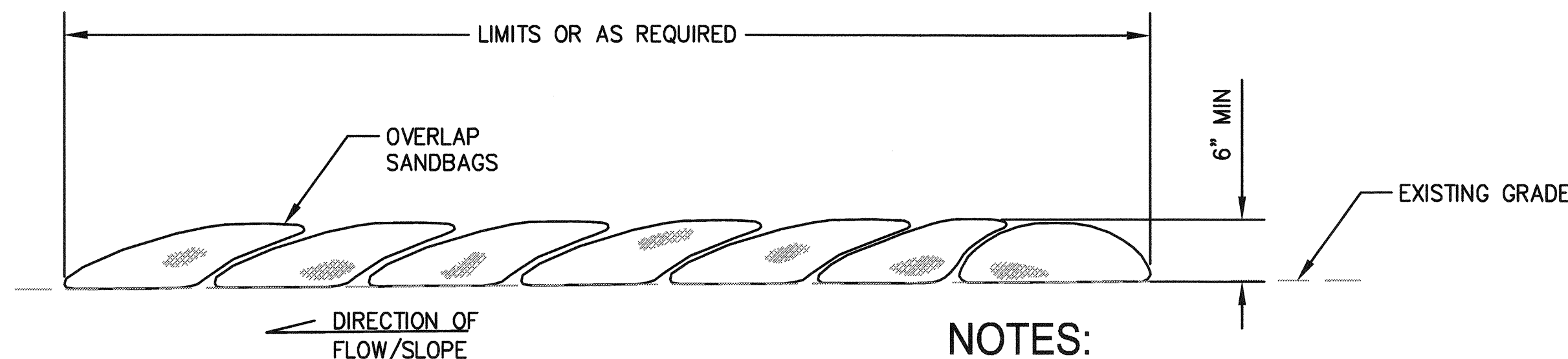


3 STOCK PILE PROTECTION DETAIL

SCALE: NTS

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE PROJECT PERMITS AND ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS PERTAINING TO DEMOLITION AND DISPOSAL.
- CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A DETAILED WORK PLAN, INCLUDING, DEMOLITION PRIOR TO COMMENCING WORK, SEE SPECIFICATIONS.
- THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE SCOPE OF WORK. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE THE METHOD OF WORK. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- THE CONTRACTOR SHALL KEEP ALL STREETS, TERMINAL AREAS, AND VEHICULAR TRAFFIC AREAS CLEAN.
- CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROLS REQUIRED DURING THE DURATION OF THIS PROJECT, SEE SPECIFICATIONS.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN PERIMETER FENCING AS REQUIRED TO MAINTAIN SECURITY OF SITES.
- CONTRACTOR SHALL PROTECT-IN-PLACE ALL STRUCTURES, UTILITIES AND OBJECTS NOT CALLED OUT AS BEING DEMOLISHED ON THE PLANS. ANY DAMAGE TO ITEMS NOT BEING DEMOLISHED SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE WORK WITHIN THE LIMITS SHOWN ON THE DRAWINGS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY DAMAGE TO UTILITIES, OTHER FACILITIES, OR EQUIPMENT DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE PROMPTLY REPAIRED AT HIS EXPENSE. THIS INCLUDES ITEMS OUTSIDE THE WORK AREA THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES DURING EXECUTION OF THIS CONTRACT.
- ALL LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HEREIN HAVE BEEN ESTABLISHED BY FIELD OBSERVATIONS OR OBTAINED FROM REVIEW OF AVAILABLE RECORDS AND SHOULD, THEREFORE, BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID OTHER UTILITIES NOT SHOWN HEREIN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. THE CONTRACTOR SHALL BRING ANY CONFLICTS BETWEEN EXISTING UTILITIES AND NEW WORK TO THE ENGINEERS ATTENTION. UTILITY LOCATE PHONE NUMBER 1-800-424-5555.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
- EXTENT OF DEBRIS REMOVAL IS APPROXIMATE AND IS TO BE VERIFIED BY THE ENGINEER PRIOR TO COMPLETION OF WORK. WOOD DEBRIS LARGER THAN 12"Ø WITHIN WORK CLEARING LIMITS MUST REMAIN IN PLACE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PRIOR TO COMMENCING DEMOLITION ACTIVITIES CONTRACTOR SHALL IMPLEMENT TEMPORARY EROSION AND SEDIMENTATION CONTROLS. NO DEMOLITION MATERIALS OR DEBRIS SHALL BE ALLOWED TO ENTER THE WATERWAY, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



4 SANDBAG BERM DETAIL

D3.1-D3.3 SCALE: NTS

NOTES:

- SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC ARE FILLED WITH GRAVEL AND SAND, LAYERED AND PACKED TIGHTLY.
- INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT.

TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) GENERAL NOTES:

- THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, REGULAR REVIEW, MAINTENANCE, REPLACEMENT, AND CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND UPGRADING THESE FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND PLANS UNTIL ALL CONSTRUCTION IS APPROVED AND ACCEPTED BY THE ENGINEER.
- THE TESC FACILITIES SHOWN ON THIS PLAN SHALL BE CONSTRUCTED PRIOR TO ALL CLEARING AND DEMOLITION SO AS TO ENSURE THAT TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED. THE TYPICAL WET SEASON RUNS FROM OCTOBER 1 THROUGH APRIL 30, AND THE DRY SEASON FROM MAY 1 THROUGH SEPTEMBER 30.
- THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE TESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING IN ACCORDANCE WITH THE SPECIFICATIONS.
- CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES TO THE REQUIREMENTS OF THE PERMITS, SPECIFICATIONS AND MINIMUM REQUIREMENTS SHOWN IN PLANS.
- THE TESC MEASURES SHOWN ON THESE PLANS ARE MINIMUM REQUIREMENTS. SHOULD TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, AS SHOWN ON THE PLANS BECOME INADEQUATE, THE CONTRACTOR SHALL INSTALL BMPs AND/OR FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, WATERBODIES, CITY OF TACOMA DRAINAGE SYSTEM, AND EXISTING PORT DRAINAGE SYSTEMS MEETING THE APPROVAL OF THE ENGINEER.
- AS A GENERAL RULE, ANY AREAS OF EXPOSED SOILS, INCLUDING EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED TESC BMP METHODS.
- INLET PROTECTION SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN 1/3 FULL.
- THE CONTRACTOR SHALL PROTECT STOCKPILE AND EXCAVATION AREAS FROM THE RELEASE OF SEDIMENT. STOCKPILES SHALL BE COVERED AT ALL TIMES WHILE NOT IN USE TO KEEP THE STORED MATERIAL DRY, AS SHOWN IN DETAIL.
- ALL NON-SALVAGED MATERIAL REMOVED FROM THE SITE SHALL BE PLACED OR DISPOSED OF AT A PERMITTED SITE. CONTRACTOR SHALL OBTAIN CHARACTERIZATION DOCUMENTATION FROM THE ENGINEER FOR ALL MATERIAL PRIOR TO HAUL AND DISPOSAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COMPLIANCE WITH THE WASHINGTON STATE DROPPING LOAD OR OTHER MATERIALS COVERING LAWS (RCW 46.51.655.3/4).
- PAVED AREAS SHALL BE SWEEP AS NECESSARY TO PREVENT SEDIMENT AND DUST TRACKING ONTO THE PAVED AREAS.
- PREVENTATIVE MEASURES TO MINIMIZE THE WIND TRANSPORT OF SOIL SHALL BE TAKEN WHEN SEDIMENT TRANSPORTED BY THE WIND IS LIKELY TO BE DEPOSITED IN DRAINAGE WAYS, WATER RESOURCES, OR NON-PORT PROPERTY.
- ALL TESC MEASURES SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED SITE UPON PROJECT COMPLETION.

	2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0152	DATE: _____ APPR: _____ BY: _____ REVISION: _____
SWK 05/20/2016 CHECKED BY: _____ DATE: 05/20/2016 ROC: _____ DATE: _____ PROJ. ENGR: _____ DATE: 6/2/16 DIRECTOR ENGR: _____ DATE: _____ PRINTED BY: rchandler PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	PCT TRUCK STAGING DEMO & TESC DETAILS AND NOTES RANGE: 03E SECTION: 01 TOWNSHIP: 20N DAT-HRZ: _____ PARCEL: 5000350150 DRAWING SCALE: AS NOTED	6556 D2.0 SHEET 7 OF 53 CONT/CONS: 070287 M. ID: _____ PHASE: 100%



KEY ITEMS:

- ① SANDBAG BERM
- ② INLET PROTECTION
- ③ PROTECT-IN-PLACE EXISTING MONITORING WELL
- ④ PROTECT EXISTING UTILITIES
- ⑤ CITY ROW LINE
- ⑥ REMOVE EXISTING GATE AND DISPOSE
- ⑦ 150' STREAM BUFFER
- ⑧ WAPATO CREEK

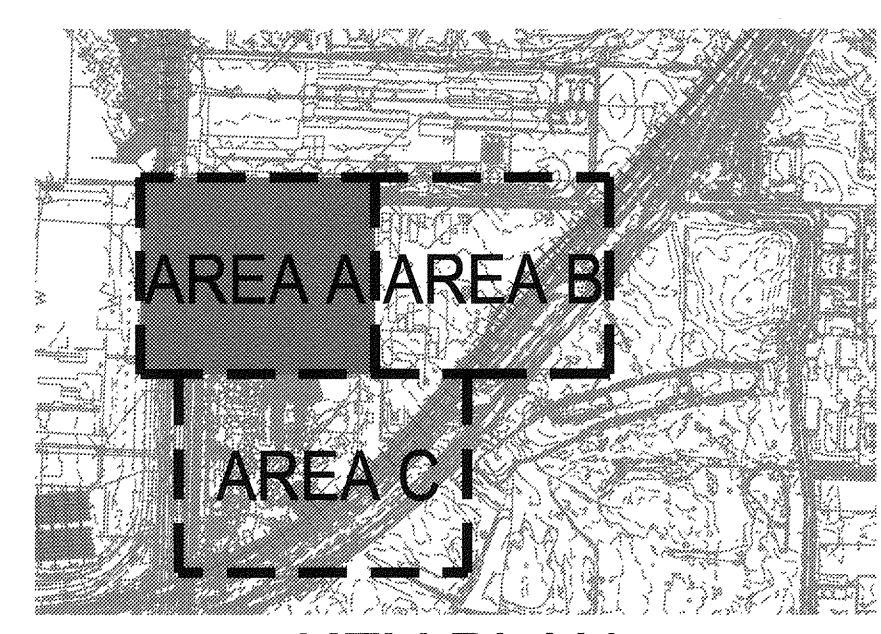
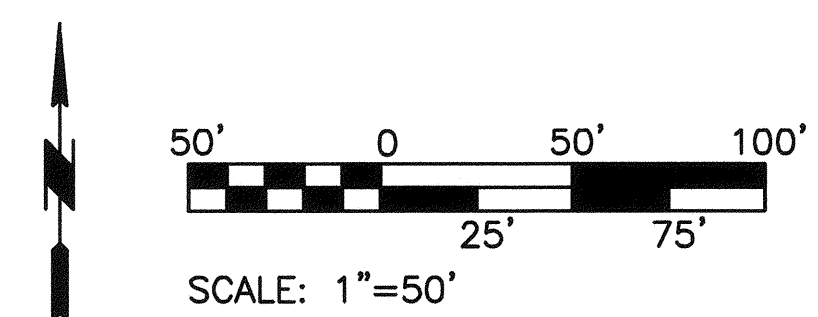
LEGEND:

- DEMO EX FENCE
- SANDBAG BERM (4) D2.0
- LIMITS OF WORK
- INLET PROTECTION (1) D2.0
- EXISTING GRAVEL SURFACE
- EXISTING ECOLOGY BLOCK
- CUT/REMOVE EXISTING VEGETATION, SEE NOTE 2
- CUT/REMOVE EXISTING VEGETATION, SEE NOTE 1

NOTES:

1. WITHIN THE STREAM BUFFER, ONLY VEGETATION DIRECTLY IN CONFLICT WITH FENCE INSTALLATION SHALL BE CUT OR REMOVED. VEGETATION SHALL REMAIN TO THE MAXIMUM EXTENT FEASIBLE.
2. OUTSIDE OF THE STREAM BUFFER, CUT OR REMOVE VEGETATION WITHIN 2±' FROM THE EDGE OF PAVEMENT.
3. EXISTING LOG YARD CATCH BASIN IS A RECTANGULAR CATCH BASIN APPROX 2'X4' WITH A CUSTOM GRATE SLOPED AT APPROX 30'. CONTRACTOR TO MODIFY TYPICAL INLET PROTECTION TO PROVIDE SAME LEVEL OF PROTECTION FOR LOG YARD CATCH BASINS.
4. CONTRACTOR SHALL INSTALL SANDBAG BERM DURING ANY RAIN EVENT OCCURRING DURING INSTALLATION OF FENCE ADJACENT TO LOW POINTS OF PORTAC STORAGE YARD.

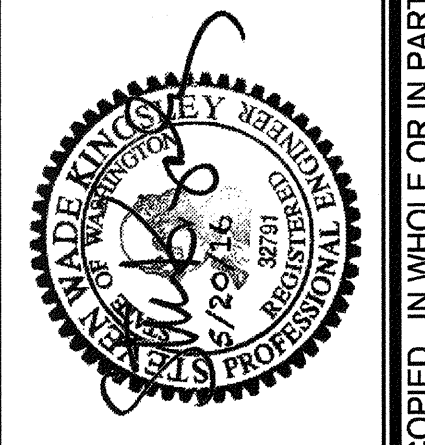
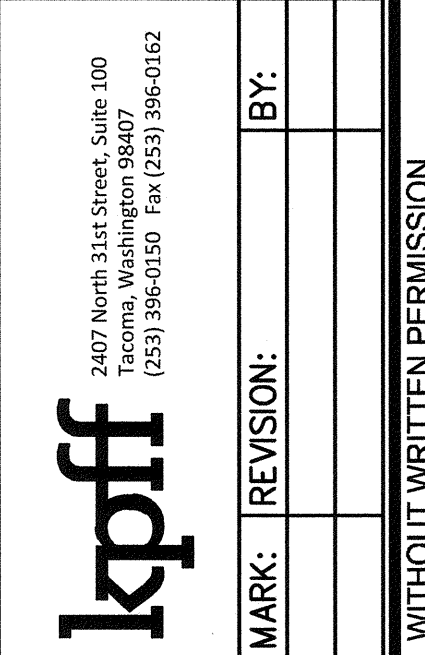
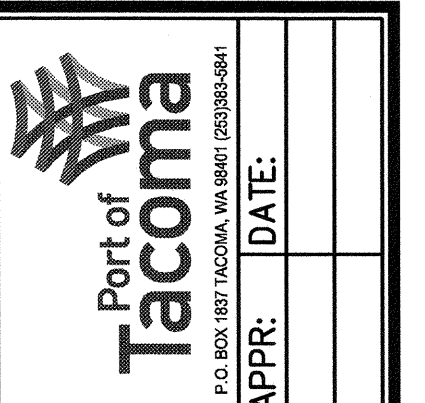
MATCH LINE - SEE SHEET D3.2



KEY PLAN
NTS

MATCH LINE - SEE SHEET D3.3

<p>6556</p> <p>D3.1</p> <p>SHEET 8 OF 53</p> <p>CONT/CONS: 07/0287</p> <p>M. ID:</p> <p>PHASE: 100%</p>	<p>PCT TRUCK STAGING</p> <p>PORTAC</p> <p>DEMO AND TESC PLAN AREA A</p>	<p>APPROVED: <i>[Signature]</i></p> <p>DIRECTOR ENG. DATE: 10/2/16</p> <p>PRINTED BY: rchandler</p> <p>PORT ADDRESS: ONE SITCUM PLAZA</p>	<p>SWK 05/20/2016</p> <p>CHECKED BY: []</p> <p>RCC 05/20/2016</p> <p>PROJ. ENGR. DATE: []</p> <p>May 20, 2016</p> <p>TACOMA, WA 98401-1837</p>
	<p>TOWNSHIP: 20N</p> <p>DAT-HRZ:</p> <p>PARCEL: 5000350150</p>	<p>RANGE: 03E</p> <p>SECTION: 01</p> <p>VERT:</p> <p>DRAWING SCALE: AS NOTED</p>	<p>DATE:</p> <p>BY:</p> <p>REVISION:</p> <p>APPR:</p>



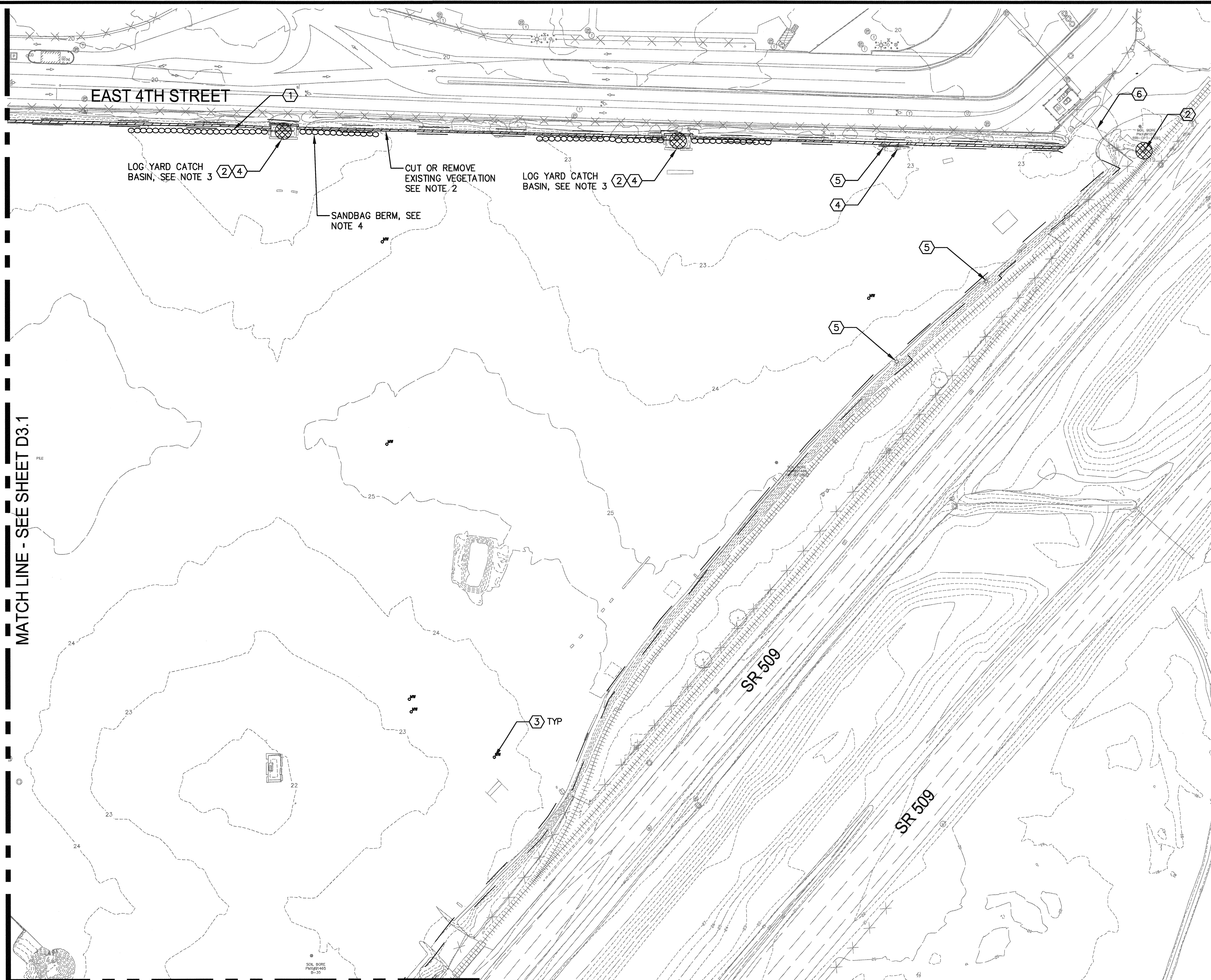
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BINDING EDGE

PORT OF TACOMA FILE: N:\Civ\114114080 Port of Tacoma Planning On-Call\114080.16 PCT Gate Queue\Part 3 - KPFF Design\3.13 Drawings\091606-D031-D033 (Portac Fence Demo and TESC Plans)

MATCH LINE - SEE SHEET D3.1

MATCH LINE - SEE SHEET D3.3



KEY ITEMS:

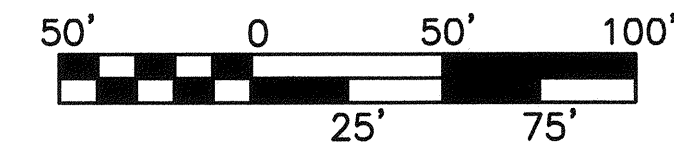
- ① SANDBAG BERM
- ② INLET PROTECTION
- ③ PROTECT IN PLACE EXISTING MONITORING WELL
- ④ PROTECT EXISTING UTILITIES
- ⑤ PROTECT-IN-PLACE EXISTING LIGHT POLE
- ⑥ EX GATE TO REMAIN

LEGEND:

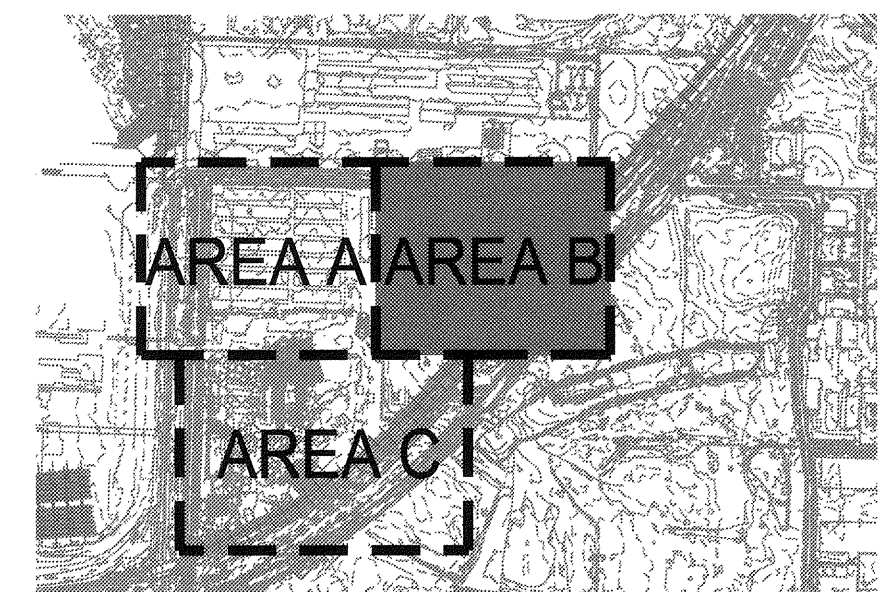
- DEMO EX FENCE
- SANDBAG BERM (4) D2.0
- LIMITS OF WORK
- INLET PROTECTION (1) D2.0
- EXISTING GRAVEL SURFACE
- EXISTING ECOLOGY BLOCK
- REMOVE EXISTING VEGETATION

NOTES:

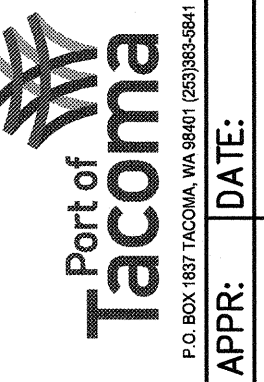
1. WITHIN THE STREAM BUFFER, ONLY VEGETATION DIRECTLY IN CONFLICT WITH FENCE INSTALLATION SHALL BE CUT OR REMOVED. VEGETATION SHALL REMAIN TO THE MAXIMUM EXTENT FEASIBLE.
2. OUTSIDE OF THE STREAM BUFFER, CUT OR REMOVE VEGETATION WITHIN 2±' FROM THE EDGE OF PAVEMENT.
3. EXISTING LOG YARD CATCH BASIN IS A RECTANGULAR CATCH BASIN APPROX 2'X4' WITH A CUSTOM GRATE SLOPED AT APPROX 30'. CONTRACTOR TO MODIFY TYPICAL INLET PROTECTION TO PROVIDE SAME LEVEL OF PROTECTION FOR LOG YARD CATCH BASINS.
4. CONTRACTOR SHALL INSTALL SANDBAG BERM DURING ANY RAIN EVENT OCCURRING DURING INSTALLATION OF FENCE ADJACENT TO LOW POINTS OF PORTAC STORAGE YARD.



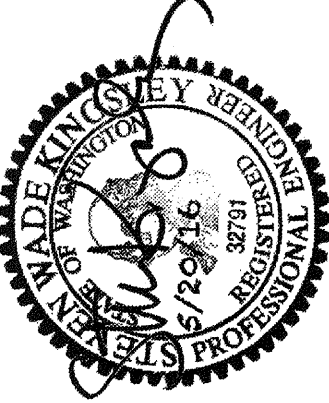
SCALE: 1"=50'



KEY PLAN
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	PROJ. ENGR	DATE
	DIRECTOR	6/2/16
	ENG. DATE	PROJECTOR
	PRINTED BY: rchandler	May 20, 2016
	PORT ADDRESS: ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

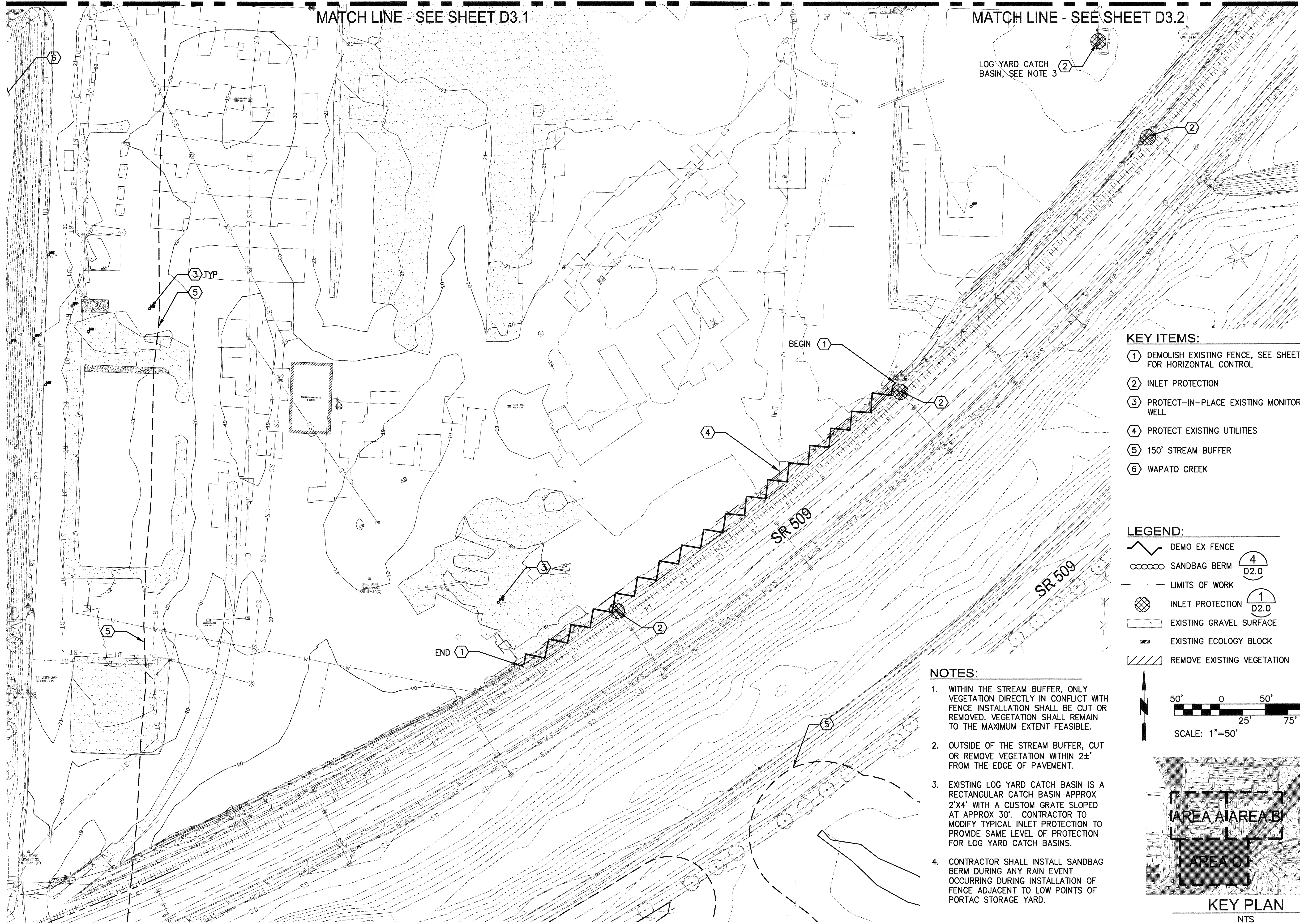
PCT TRUCK STAGING
PORTAC
DEMO AND TESC PLAN AREA B

6556	TOWNSHIP: 20N	RANGE: 03E	SECTION: 01
D3.2	DATE-HRZ:	VERT:	
SHEET 9 OF 53	PARCEL: 5000350150	DRAWING SCALE: AS NOTED	
CONT/CONS: 070287			
M. ID:			
PHASE: 100%			

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MATCH LINE - SEE SHEET D3.1

MATCH LINE - SEE SHEET D3.2

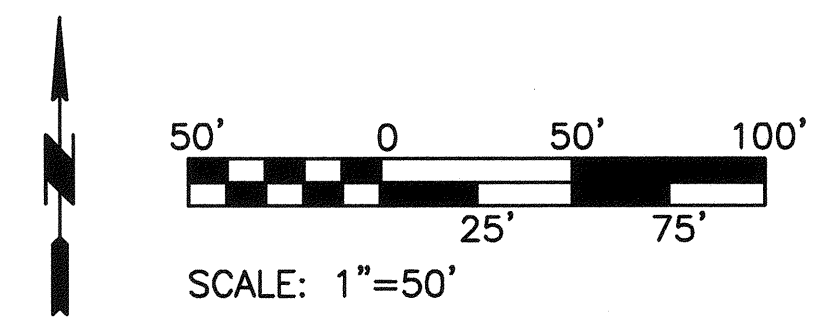


KEY ITEMS:

- ① DEMOLISH EXISTING FENCE, SEE SHEET C11.4 FOR HORIZONTAL CONTROL
- ② INLET PROTECTION
- ③ PROTECT-IN-PLACE EXISTING MONITORING WELL
- ④ PROTECT EXISTING UTILITIES
- ⑤ 150' STREAM BUFFER
- ⑥ WAPATO CREEK

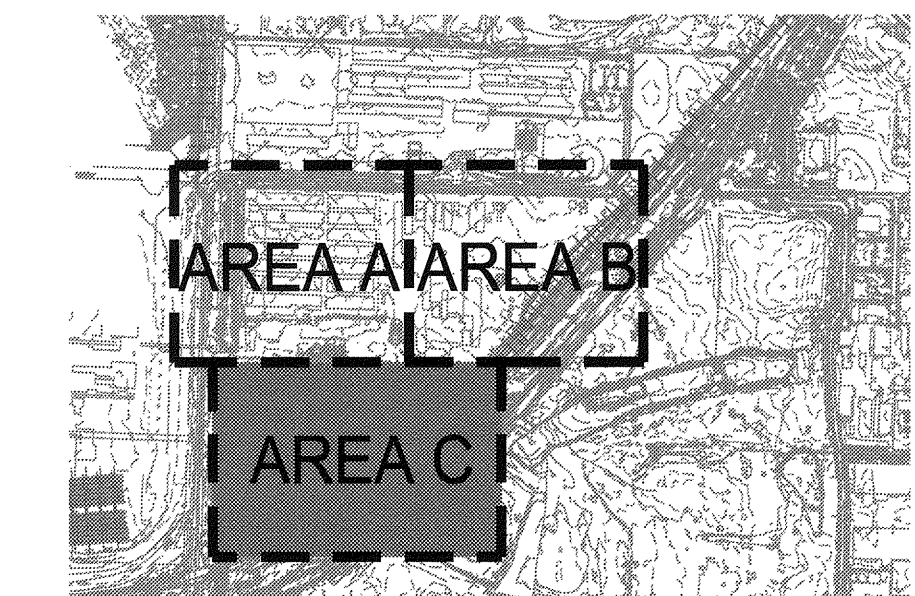
LEGEND:

- DEMO EX FENCE
- SANDBAG BERM (4 D2.0)
- LIMITS OF WORK
- INLET PROTECTION (1 D2.0)
- EXISTING GRAVEL SURFACE
- EXISTING ECOLOGY BLOCK
- REMOVE EXISTING VEGETATION

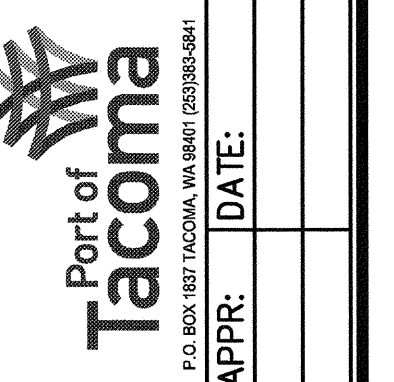


NOTES:

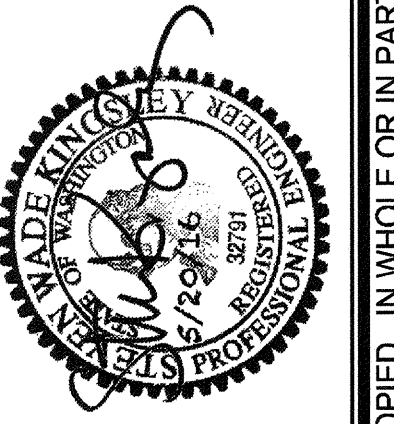
1. WITHIN THE STREAM BUFFER, ONLY VEGETATION DIRECTLY IN CONFLICT WITH FENCE INSTALLATION SHALL BE CUT OR REMOVED. VEGETATION SHALL REMAIN TO THE MAXIMUM EXTENT FEASIBLE.
2. OUTSIDE OF THE STREAM BUFFER, CUT OR REMOVE VEGETATION WITHIN 2±' FROM THE EDGE OF PAVEMENT.
3. EXISTING LOG YARD CATCH BASIN IS A RECTANGULAR CATCH BASIN APPROX 2'X4' WITH A CUSTOM GRATE SLOPED AT APPROX 30°. CONTRACTOR TO MODIFY TYPICAL INLET PROTECTION TO PROVIDE SAME LEVEL OF PROTECTION FOR LOG YARD CATCH BASINS.
4. CONTRACTOR SHALL INSTALL SANDBAG BERM DURING ANY RAIN EVENT OCCURRING DURING INSTALLATION OF FENCE ADJACENT TO LOW POINTS OF PORTAC STORAGE YARD.



KEY PLAN
NTS



kpff
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 Tacoma, Washington 98407
 (253) 396-0130 Fax (253) 396-0162

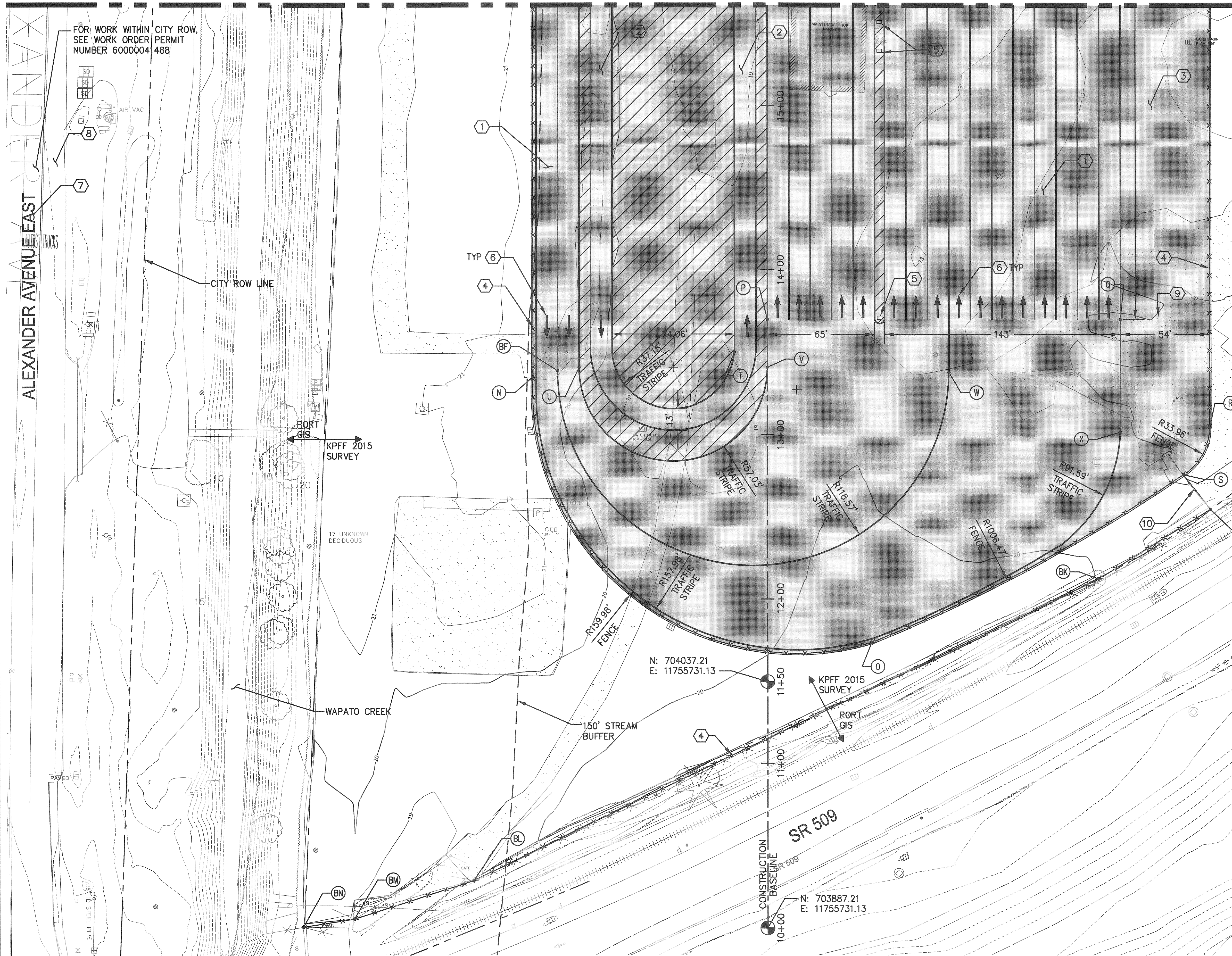


APPROVED:	SWK	05/20/2016
<i>[Signature]</i>	CHECKED BY	DATE
DIRECTOR	RCC	05/20/2016
6/2/16	PROJ. ENGR	DATE
PRINTED BY: rchandler	May 20, 2016	
PORT ADDRESS: ONE SITJUM PLAZA		
	TACOMA, WA 98401-1837	

6556	PCT TRUCK STAGING	AS NOTED
D3.3	PORTAC	
SHEET 10 OF 53	DEMO AND TESC PLAN AREA C	
CONTR/CONS: 070287	TOWNSHIP: 20N	SECTION: 01
M. ID:	DAT-HRZ:	VERT:
PHASE: 100%	PARCEL: 5000350150	DRAWING SCALE:

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MATCH LINE - SEE SHEET C1.1



KEY NOTES:

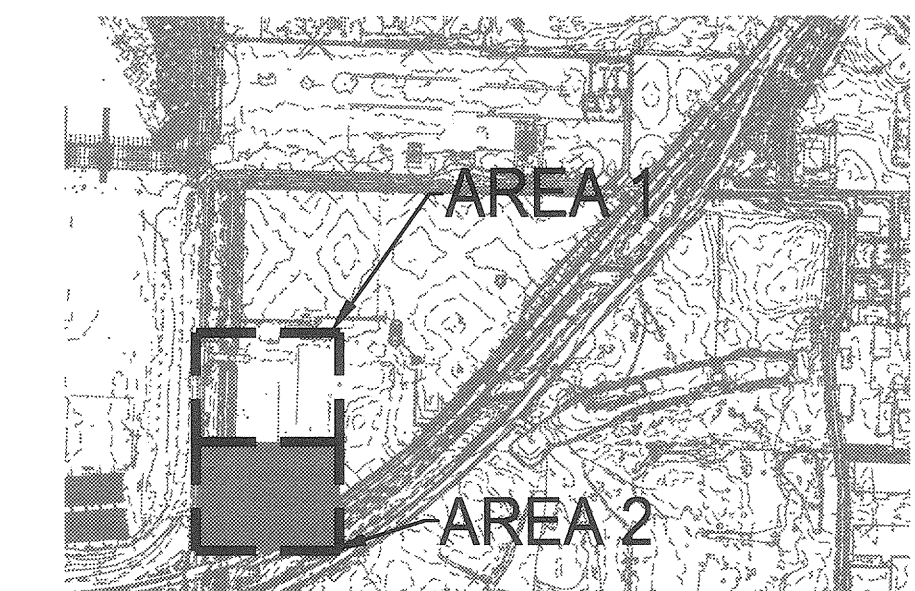
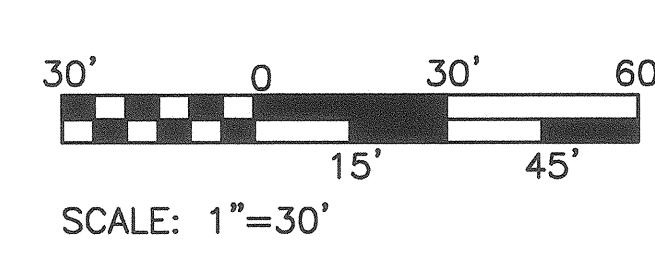
- 1 TRUCK QUEUE LANE, 13-FT TYP
- 2 BOB TAIL LANE ONLY, 13-FT TYP
- 3 ADDITIONAL SPACE FOR 4 FUTURE TRUCK QUEUE LANES
- 4 8-FT CHAIN LINK FENCE, SEE DETAIL 1 ON C5.1
- 5 HALF SIZE ECOLOGY BLOCK, 3'X2'X2'
- 6 TRAFFIC ARROW SYMBOL, SEE DETAIL 7 ON SHEET C5.0
- 7 AUTO/POV TRAVEL LANE
- 8 TRUCK TRAVEL LANE
- 9 SALVAGED ECOLOGY BLOCK, 6'X2'X2'
- 10 FOR WORK ASSOCIATED WITH PORTAC PERIMETER FENCE, SEE SHEETS C10.0 THRU C12.3

NOTES:

1. FOR STATION AND OFFSET CONTROL DATA TABLE, SEE SHEET C5.7.
2. REFER TO SHEETS C2.1 THRU C2.2 FOR PAVING.

LEGEND:

- WHITE TRAFFIC STRIPE LINE, 4" WIDE UNO
- CHAIN LINK FENCE (C5.1)
- ▨ NO DRIVING AREA - 4" STRIPES @ 5' OC
- SALVAGED ECOLOGY BLOCK
- CONTROL POINT



			SWK 05/20/2016 CHECKED BY: DATE
	2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0330 Fax (253) 396-0362		RGC 05/20/2016 PROJ. ENGR. DATE
6556 C1.2 SHEET 12 OF 53 CONT/CONS: 070287 M. ID: PHASE: 100%	PCT TRUCK STAGING PCT SITE PLAN - AREA 2	TOWNSHIP: 20N DAT-HRZ: PARCEL: 5000350150	RANGE: 0.3E SECTION: 01 VERT: DRAWING SCALE: AS NOTED
APPROVED: <i>[Signature]</i> DIRECTOR ENG. DATE: 6/2/16 PRINTED BY: rchandler May 20, 2016 PORT ADDRESS: ONE SITCLIM PLAZA TACOMA, WA 98401-1837		MARK: REVISION: BY: DATE: APPR: DATE:	

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- KEY NOTES:**
- EXISTING EDGE OF PAVEMENT
 - 4" ASPHALT PAVEMENT OVERLAY AT ENTRANCE, SEE DETAIL 3 ON SHEET C5.0.
 - 4" ASPHALT PAVEMENT OVERLAY, SEE DETAIL 1 ON SHEET C5.0
 - 4" ASPHALT PAVEMENT, EX 7" BASE COURSE, SEE DETAIL 2 ON SHEET C5.0
 - ASPHALT PAVEMENT LIMITS TO MATCH EXISTING ASPHALT PAVEMENT LIMITS
 - 6" ASPHALT PAVEMENT WITH 7" BASE COURSE, SEE DETAIL 6 ON SHEET C5.0
 - ASPHALT PAVEMENT REPAIR PER DETAIL 3 ON SHEET C5.4
 - ASPHALT RAMP FROM EDGE OF OVERLAY AT A 8.33% SLOPE TO MATCH EXISTING PAVEMENT SURFACE

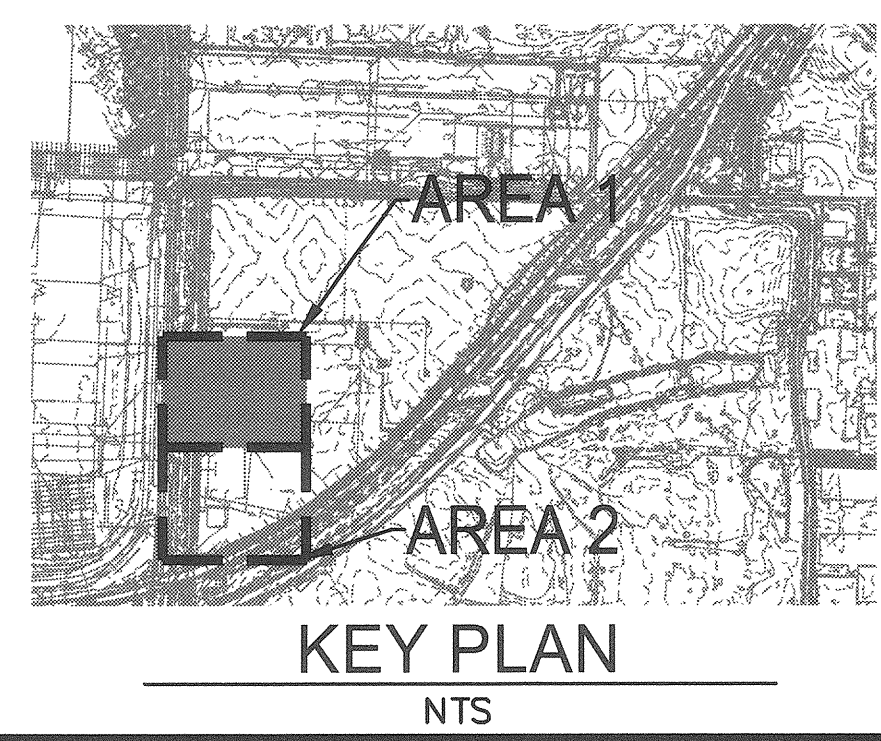
- NOTES:**
- FOR STATION AND OFFSET DATA TABLE, SEE SHEET C5.7.
 - FOR UTILITY IMPROVEMENTS SEE SHEETS C3.1 THRU C3.2.
 - PLACE LONGITUDINAL HMA STEP WEDGE JOINTS BETWEEN AREAS OF HMA PLACEMENT. REFER TO (9) C5.0

LEGEND:

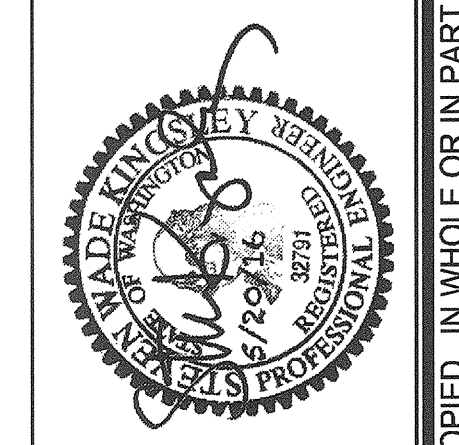
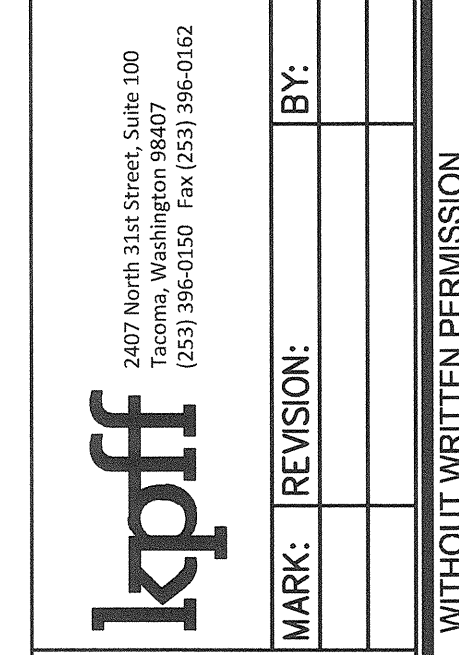
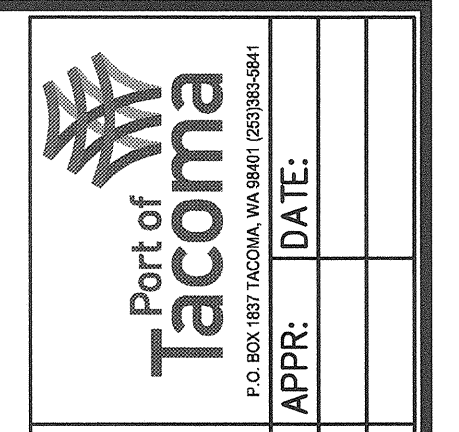
- 4" ASPHALT PAVEMENT OVERLAY
- 4" ASPHALT PAVEMENT ON EX BASE
- 6" ASPHALT PAVEMENT WITH 7" BASE
- PAVEMENT REPAIR (3) C5.4
- PAVEMENT EDGE LINE
- CHAIN LINK FENCE
- TRAFFIC STRIPE LINE
- CONTROL POINT (AA)

SCALE: 1"=30'

30' 0 30' 60'
15' 45'

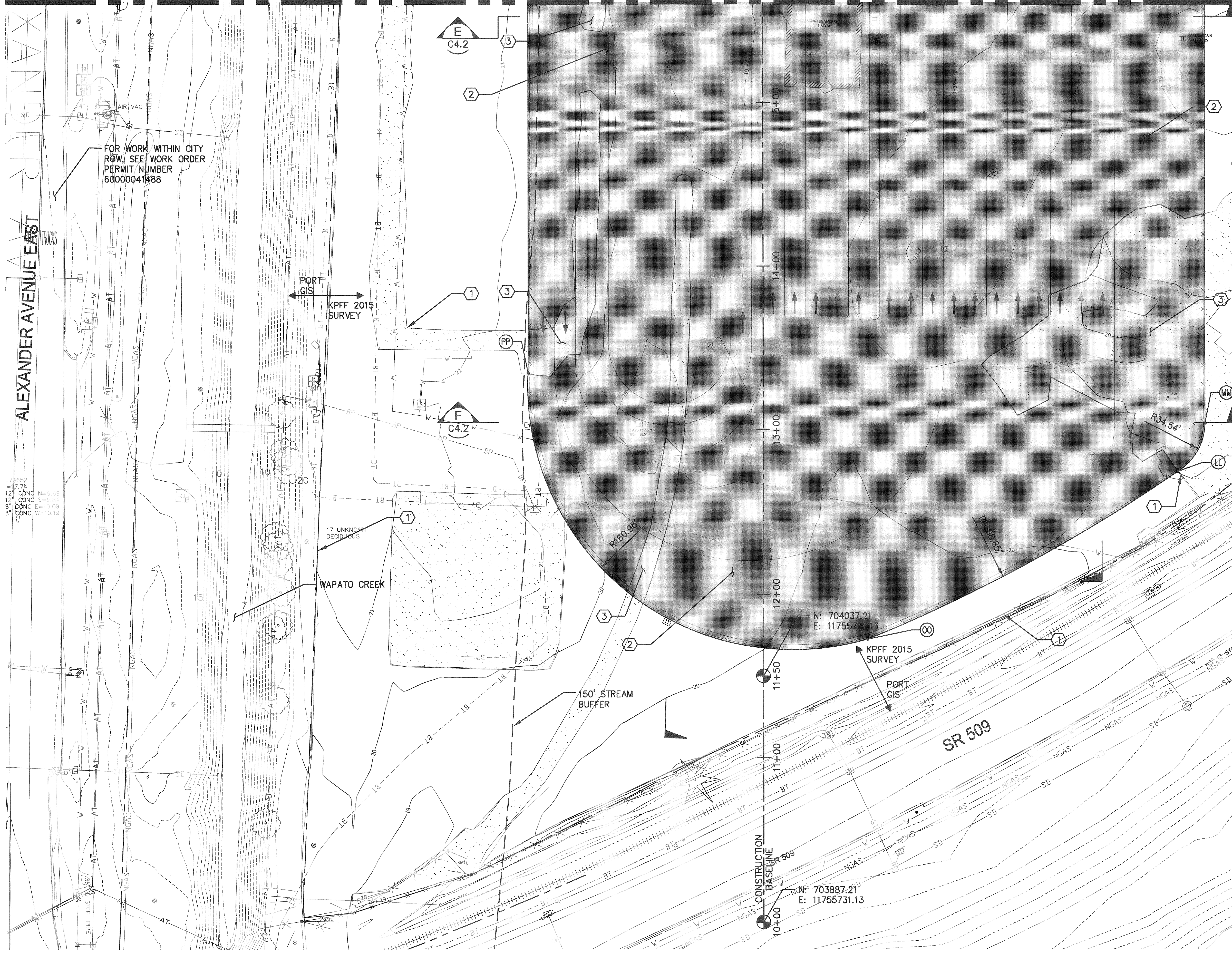


6556	C2.1	PCT TRUCK STAGING				SWK	05/20/2016
		GRADING & PAVING PLAN - AREA 1				CHECKED BY	DATE
SHEET 13 OF 53		TOWNSHIP: 20N	RANGE: 03E	SECTION: 01	DIRECTOR ENG. DATE	05/20/2016	
CONT/CONS: 070287		DAT-HRZ:	VERT:	PRINTED BY: rchandler	PROJ. ENGR DATE	6/12/16	
M. ID:		PARCEL: 5000350150	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA	TACOMA, WA 98401-1837		
PHASE: 100%							



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MATCH LINE - SEE SHEET C2.1



KEY NOTES:

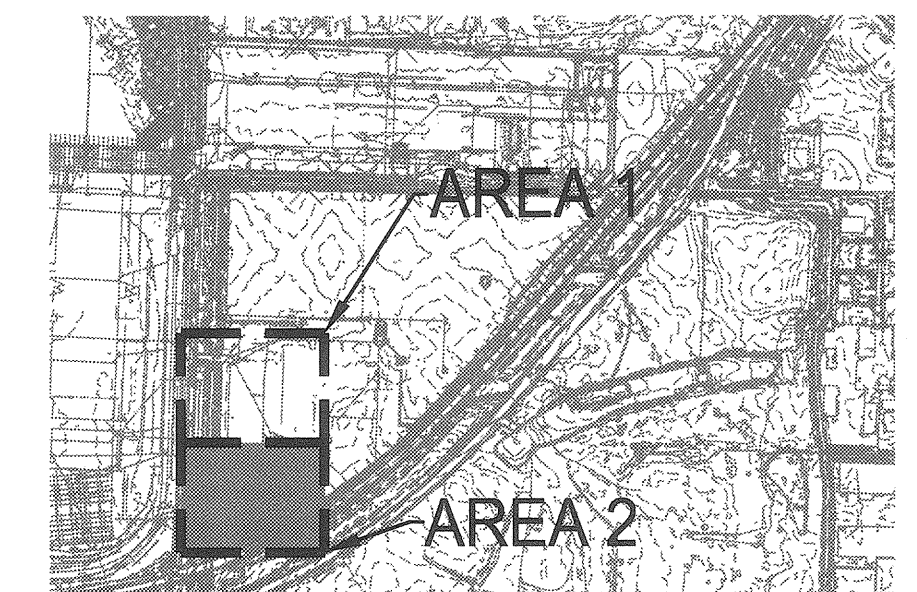
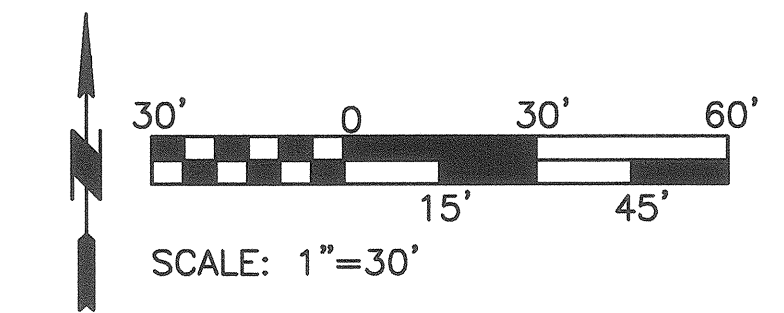
- ① EXISTING EDGE OF PAVEMENT
- ② 4" ASPHALT PAVEMENT OVERLAY, SEE DETAIL 1 ON SHEET C5.0
- ③ 4" ASPHALT PAVEMENT, SEE DETAIL 2 ON SHEET C5.0

NOTES:

- 1. FOR STATION AND OFFSET DATA CONTROL TABLE, SEE SHEET C5.7.
- 2. FOR UTILITY IMPROVEMENTS, SEE SHEETS C3.1 THRU C3.2.
- 3. PLACE LONGITUDINAL HMA STEP WEDGE JOINTS BETWEEN AREAS OF HMA PLACEMENT. REFER TO $\frac{9}{C5.0}$

LEGEND:

- 4" ASPHALT PAVEMENT OVERLAY
- 4" ASPHALT PAVEMENT ON EX BASE
- PAVEMENT EDGE LINE
- CHAIN LINK FENCE
- TRAFFIC STRIPE LINE
- CONTROL POINT



6556	PCT TRUCK STAGING		SWK	05/20/2016
	C2.2		CHECKED BY	DATE
SHEET 14 OF 53	PCT GRADING & PAVING PLAN - AREA 2		RCC	05/20/2016
CONT/CONS: 070287	TOWNSHIP: 20N	RANGE: 03E	SECTION: 01	DATE
M. ID:	DAT-HRZ:	VERT:	PARCEL: 5000350150	PRINTED BY: rchandler May 20, 2016
PHASE: 100%	DRAWING SCALE: AS NOTED		TACOMA, WA 98401-1837	

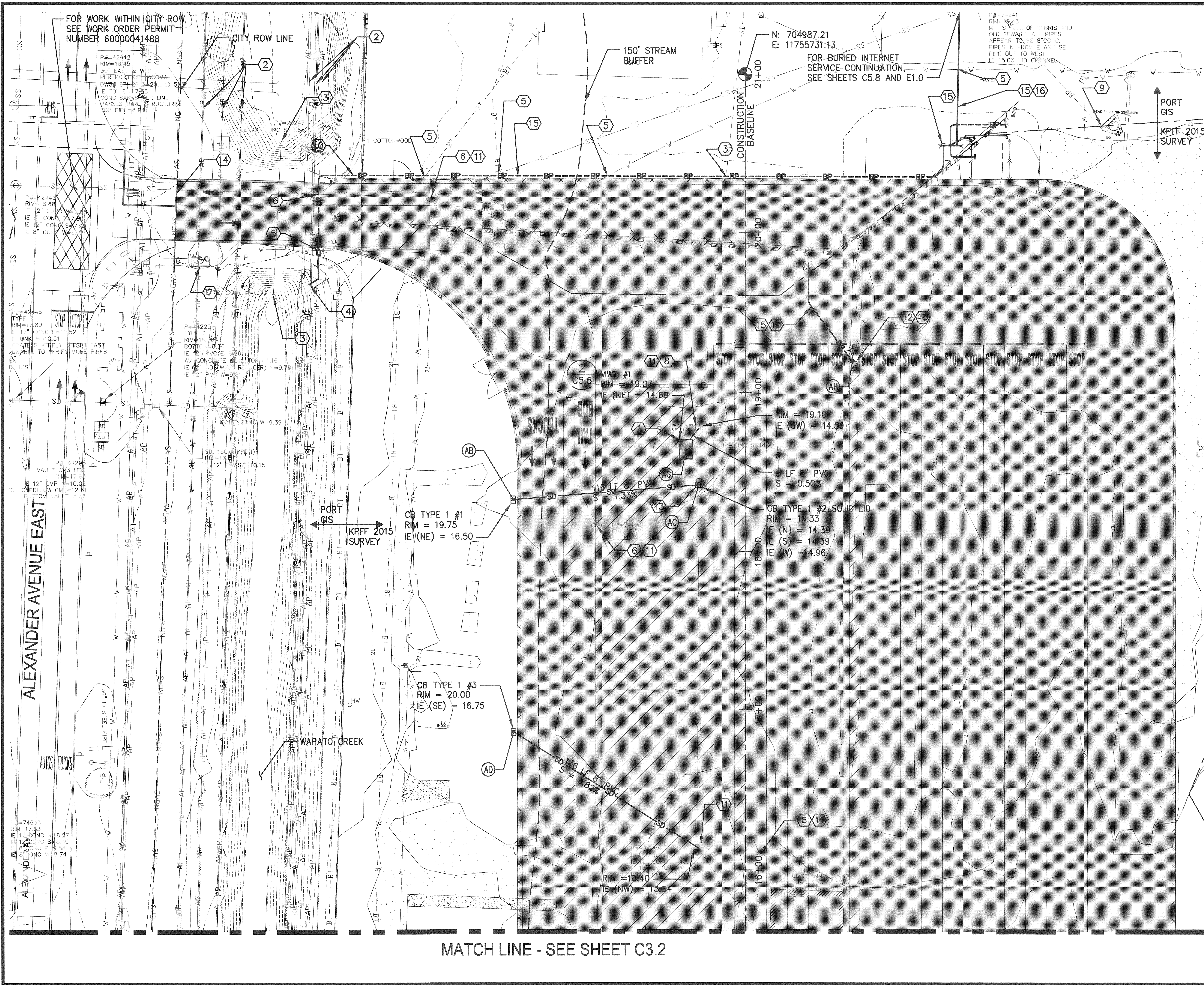
Port of Tacoma
P.O. BOX 1807 TACOMA, WA 98401 (206)384-4444

kpff
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Tacoma, WA 98406
(253) 396-0130 Fax (253) 396-0132

MADE IN WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
NO. 32915
KYLE S. SUTHERLAND

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- KEY NOTES:**
- MODULAR WETLAND SYSTEM (MWS)
 - EXISTING OVERHEAD POWER LINES. CONTRACTOR TO PROTECT-IN-PLACE.
 - EXISTING STORM SEWER UTILITY CROSSING. LOCATE AND PROTECT-IN-PLACE EXISTING UTILITY.
 - PROTECT-IN-PLACE EXISTING POWER POLE.
 - EXISTING UTILITY CROSSING, INVERT UNKNOWN. LOCATE AND PROTECT-IN-PLACE.
 - EXISTING SANITARY SEWER UTILITY, INVERT UNKNOWN. LOCATE AND PROTECT-IN-PLACE
 - PROTECT-IN-PLACE EXISTING WATER UTILITY
 - REPLACE GRATE LID WITH SOLID HS-25 RATED LID
 - PROTECT-IN-PLACE EX NAVIGATION MARKER
 - BURIED ELECTRICAL SERVICE
 - RAISE EXISTING RIM TO FINISHED GRADE
 - NEW POWER POLE WITH SALVAGED LIGHT FIXTURE
 - INSTALL CATCH BASIN ON EXISTING STORM DRAIN LINE
 - PROTECT-IN-PLACE NATURAL GAS LINE
 - FOR ELECTRICAL, SEE SHEETS E1.0 THRU E3.0
 - BURIED INTERNET SERVICE
- NOTES:**
- FOR STATION AND OFFSET DATA CONTROL TABLE, SEE SHEET C5.7.
 - REFER TO SHEETS C2.1 THRU C2.2 FOR PAVING.
 - CONTRACTOR SHALL RESTORE DISTURBED VEGETATION WITHIN STREAM BUFFER AT A MINIMUM WITH NATIVE GRASSES.
 - ALL NEW UNDERGROUND UTILITY STRUCTURES SHALL BE DESIGNED PER THE LOADING CRITERIA ON SHEET G3.
- LEGEND:**
- BP - BURIED ELECTRICAL SERVICE
 - SD - 8" PVC STORM DRAIN PIPE
 - CHAIN LINK FENCE
 - TRAFFIC STRIPE LINE
 - CATCH BASIN, TYPE 1 (C5.6)
 - CONTROL POINT (AH)
- SCALE: 1"=30'**
- KEY PLAN**
- AREA 1**
- AREA 2**

APPROVED: *[Signature]*

SWK 05/20/2016 **CHECKED BY** DATE

RGC 05/20/2016 **PROJ. ENGR** DATE

DIRECTOR/ENG. DATE 6/2/16 **PRINTED BY:** rchandler May 20, 2016

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

PCT TRUCK STAGING

UTILITY PLAN - AREA 1

TOWNSHIP: 20N **RANGE: 03E** **SECTION: 01**

DAT-HRZ: **VERT:** **DRAWING SCALE: AS NOTED**

PARCEL: 5000350150

6556

C3.1

SHEET 15 OF 53

CONT/CONS: 070287

M. ID:

PHASE: 100%

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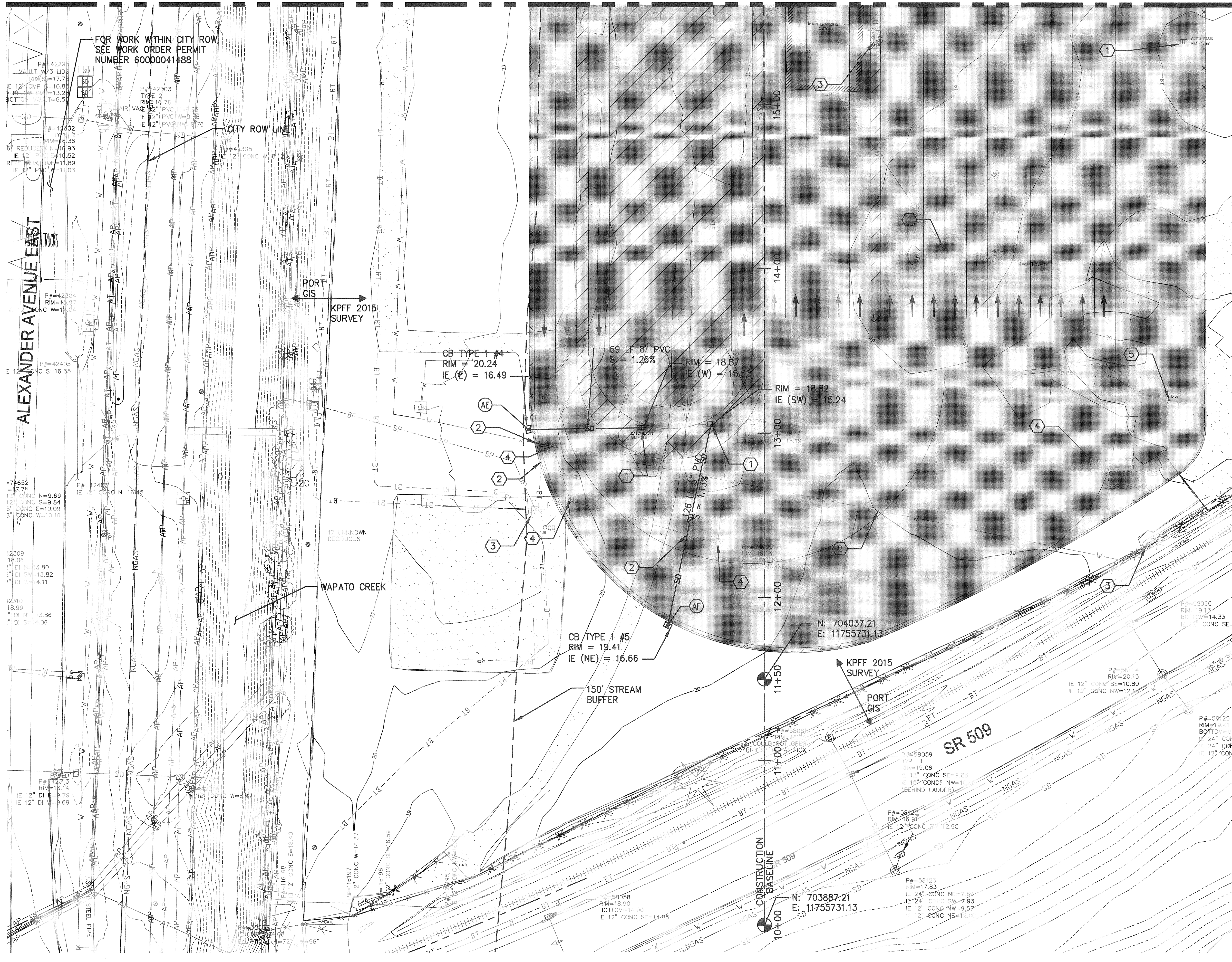
MADE KINCOLEY REGISTERED PROFESSIONAL ENGINEER
NO. 12345
6/2/16

KEY PLAN

AREA 1

AREA 2

MATCH LINE - SEE SHEET C3.1



KEY NOTES:

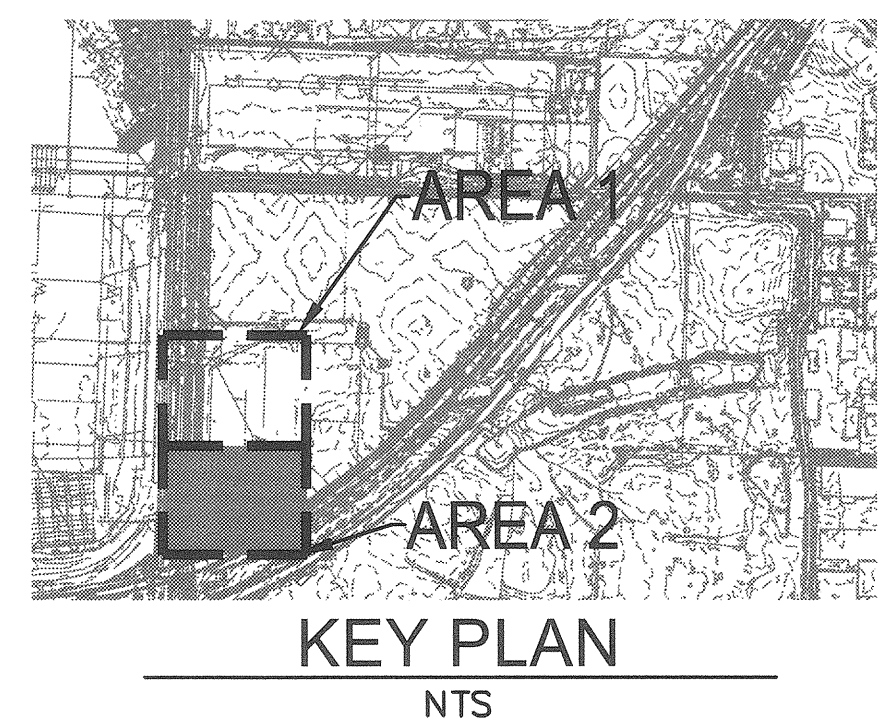
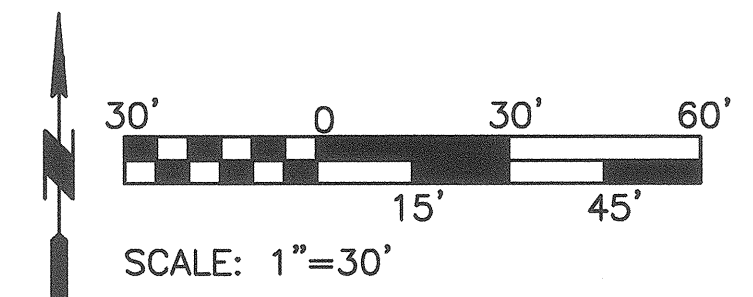
- 1 RAISE EXISTING CATCH BASIN RIM TO FINISHED GRADE
- 2 EXISTING UTILITY CROSSING. EXISTING UTILITY INVERT UNKNOWN. CONTRACTOR TO LOCATE AND PROTECT-IN-PLACE.
- 3 PROTECT-IN-PLACE
- 4 RAISE EXISTING SANITARY SEWER LID TO FINISHED GRADE
- 5 PROTECT IN PLACE MONITORING WELL AND RAISE LID TO FINISHED GRADE, SEE DETAIL 4 ON SHEET C5.4

NOTES:

1. FOR STATION AND OFFSET CONTROL DATA TABLE SEE SHEET C5.7.
2. REFER TO SHEETS C2.1 THRU C2.2 FOR PAVING.
3. CONTRACTOR SHALL RESTORE DISTURBED VEGETATION WITHIN STREAM BUFFER AT A MINIMUM WITH NATIVE GRASSES.
4. ALL NEW UNDERGROUND UTILITY STRUCTURES SHALL BE DESIGN PER THE LOADING CRITERIA ON SHEET G3.

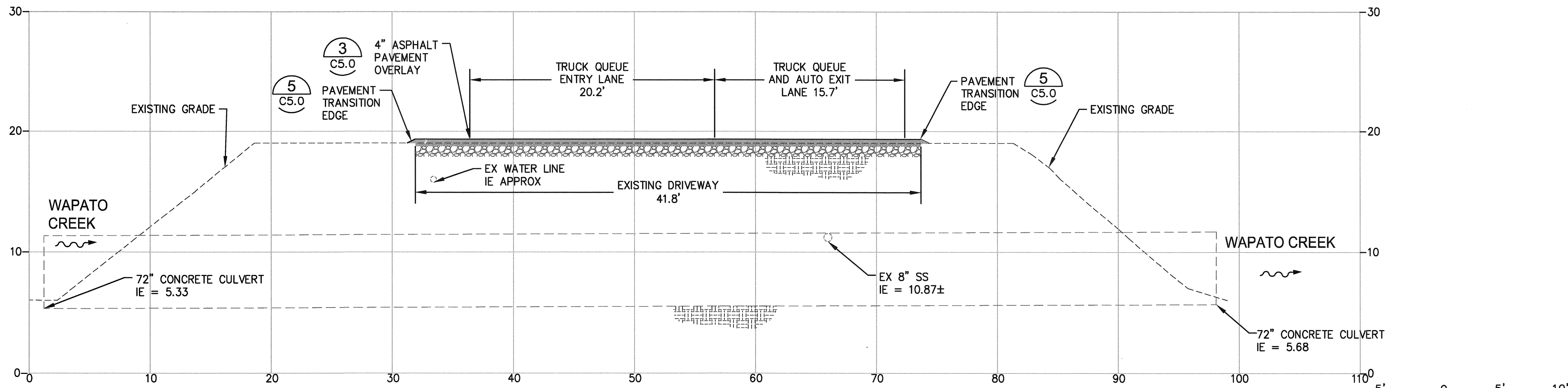
LEGEND:

- BP--- BURIED ELECTRICAL SERVICE
- SD 8" PVC STORM DRAIN PIPE
- X--- CHAIN LINK FENCE
- TRAFFIC STRIPE LINE
- ▣ CATCH BASIN, TYPE 1 (C5.6)
- ⊙ CONTROL POINT

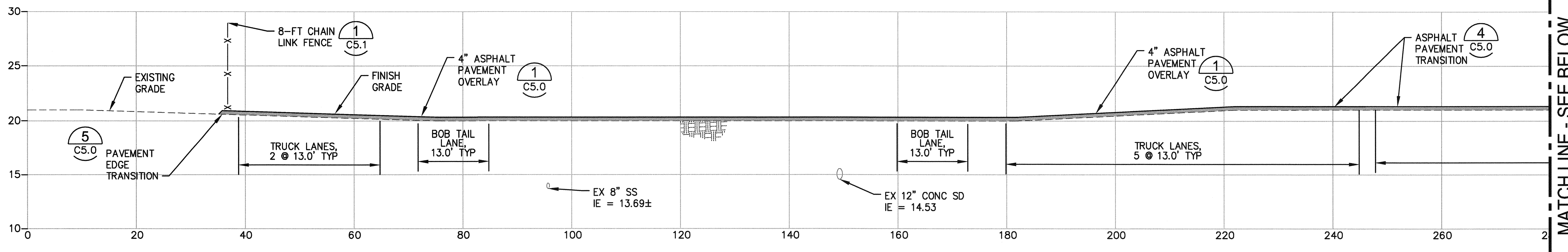
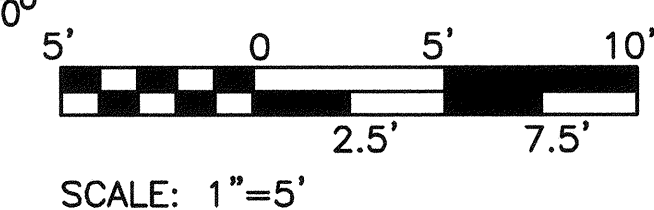


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		MARK: REVISION: BY: DATE:
	SWK 05/20/2016 CHECKED BY DATE	
	RGC 05/20/2016 PROL ENGR DATE	
APPROVED: <i>[Signature]</i>	TOWNSHIP: 20N DAT-HRZ:	RANGE: 03E SECTION: 01
6556 C3.2 SHEET 16 OF 53	PARCEL: 5000350150 DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837
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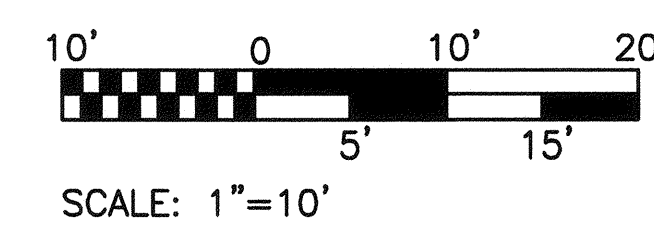
BINDING EDGE



A ALEXANDER DRIVEWAY SECTION
C2.1 SCALE: 1" = 5'



B SITE SECTION
C2.1 SCALE: HORZ: 1" = 10', VERT: 1" = 5'



PORT OF TACOMA FILE: N:\CIVIL\114114080 Port of Tacoma Planning On-Call\114080.16 PCT Gate Queue\Part 3 - KPFF Design\3.13 Drawings\091606-C040-C043 (Sections)

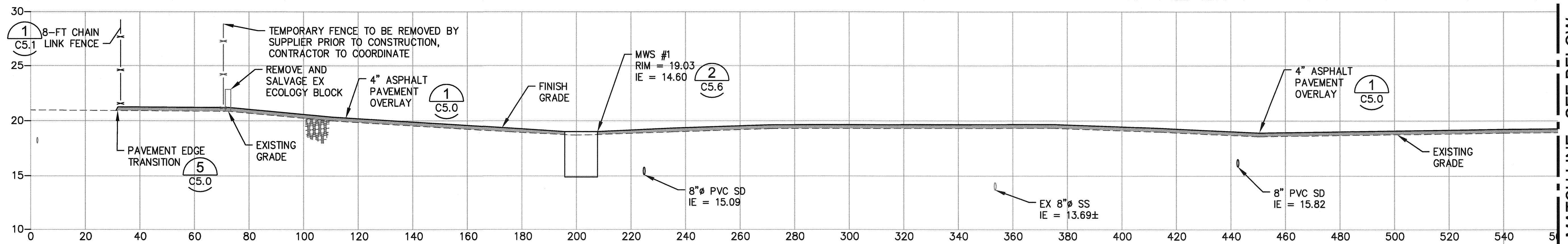
MATCH LINE - SEE ABOVE

MATCH LINE - SEE BELOW

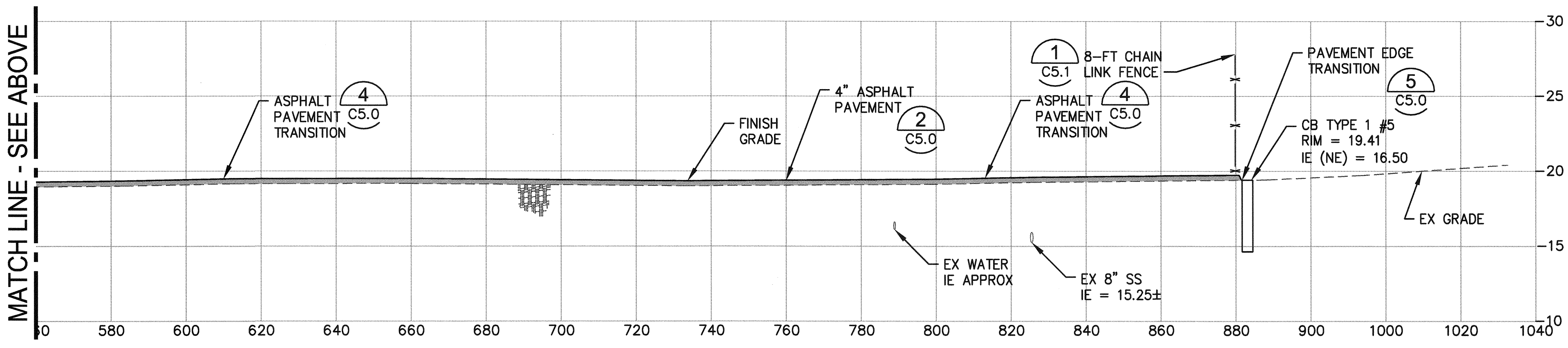
 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0350 Fax (253) 396-0362	 WA STATE PROFESSIONAL ENGINEER	SWK 05/20/2016 CHECKED BY DATE RGC 05/20/2016	APPROVED: <i>[Signature]</i> DIRECTOR/ENG. DATE 6/2/16 PRINTED BY: rcharndler PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
	Port of Tacoma P.O. BOX 987 TACOMA, WASHINGTON 98401-0987	MARK: REVISION: BY: DATE:	PCT TRUCK STAGING PCT SITE SECTIONS RANGE: 03E SECTION: 01 TOWNSHIP: 20N DAT-HRZ: VERT: PARCEL: 5000350150 DRAWING SCALE: AS NOTED

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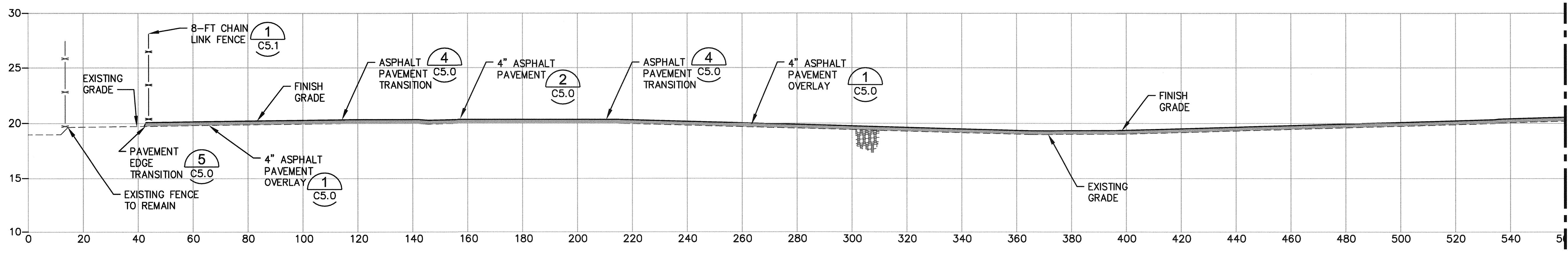


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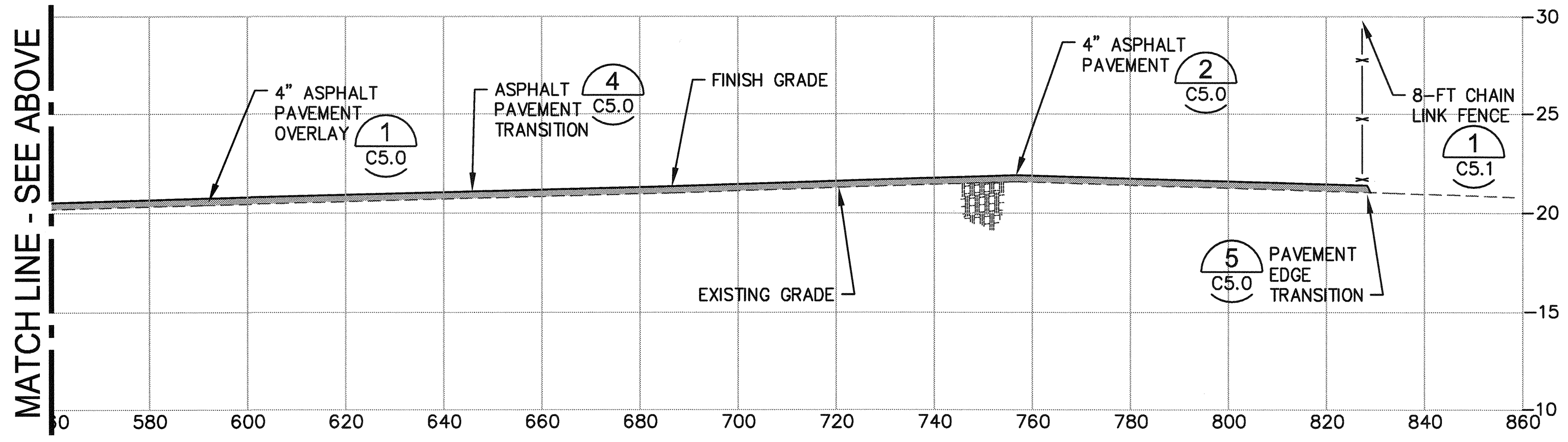


MATCH LINE - SEE ABOVE

C WEST SITE SECTION
 C2.1-2.2 SCALE: HORZ: 1" = 20', VERT: 1" = 5'

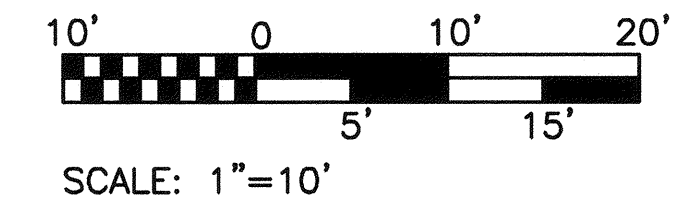


MATCH LINE - SEE BELOW



MATCH LINE - SEE ABOVE

D EAST SITE SECTION
 C2.1-2.2 SCALE: HORZ: 1" = 20', VERT: 1" = 5'



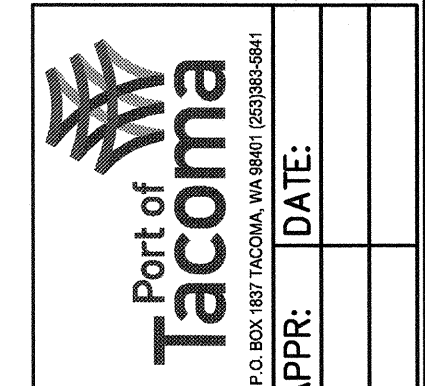
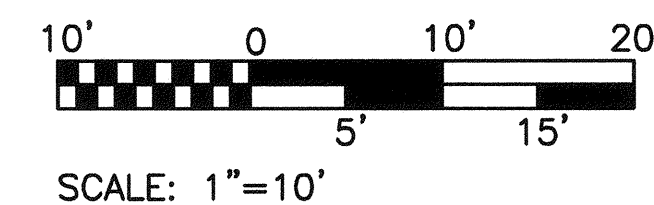
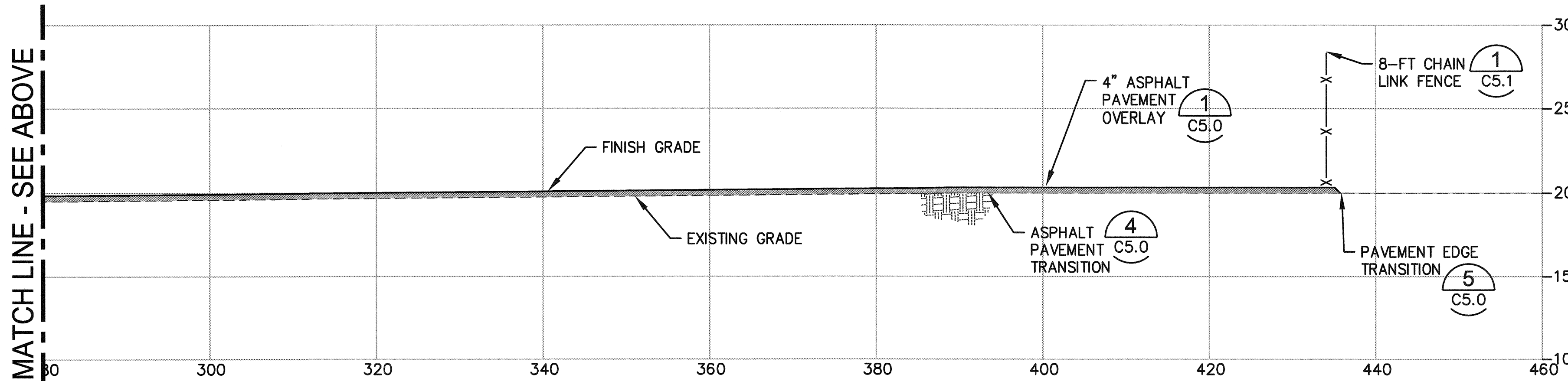
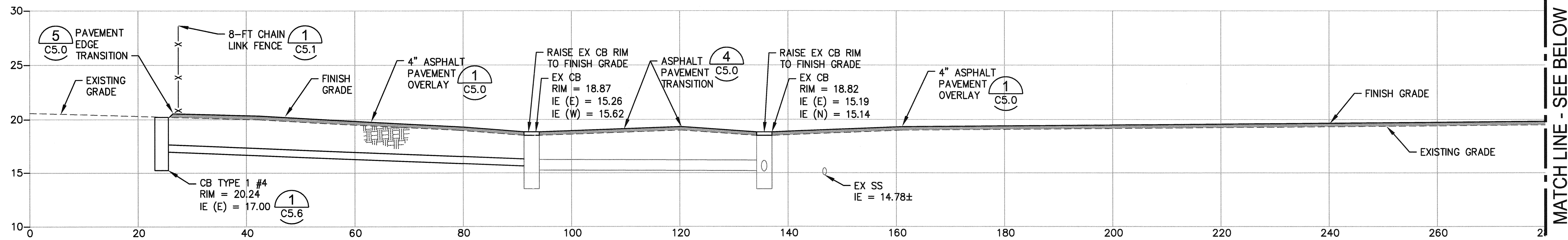
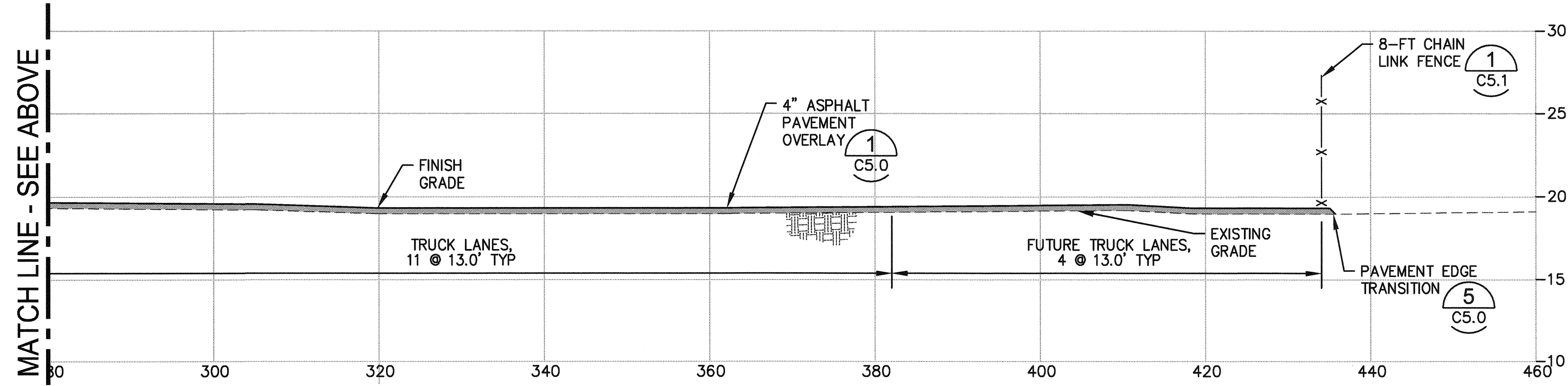
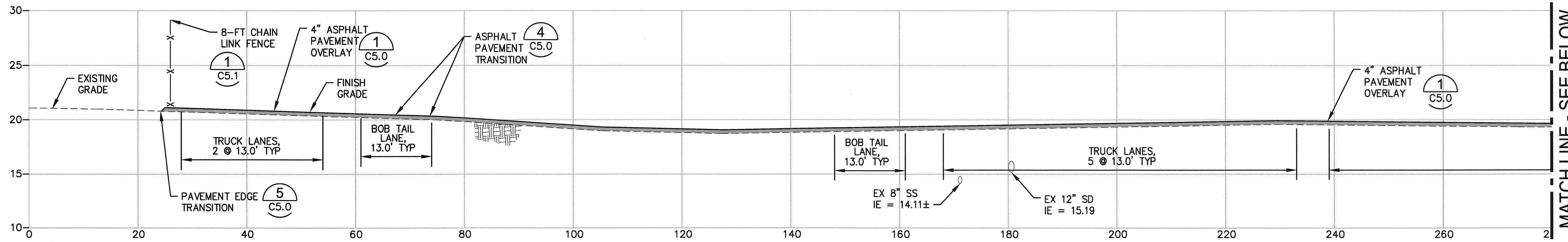
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 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (252) 396-0130 Fax (252) 396-0162	MARK: <input type="checkbox"/> REVISION: <input type="checkbox"/> BY: <input type="checkbox"/> APPR: <input type="checkbox"/> DATE: <input type="checkbox"/>
SWK 05/20/2016 CHECKED BY: <input type="checkbox"/> DATE: <input type="checkbox"/> RGC 05/20/2016 PROJ. ENGR. DATE: <input type="checkbox"/> PRINTED BY: rchandler May 20, 2016 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	APPROVED: <i>[Signature]</i> DIRECTOR ENG. DATE: 6/2/16 PRINTED BY: rchandler May 20, 2016 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
6556 C4.1 SHEET 18 OF 53 CONT/CONS: 070287 M. ID: PHASE: 100%	PCT TRUCK STAGING PCT SITE SECTIONS RANGE: 03E SECTION: 01 TOWNSHIP: 20N DAT-HRZ: VERT: PARCEL: 9000350150 DRAWING SCALE: AS NOTED

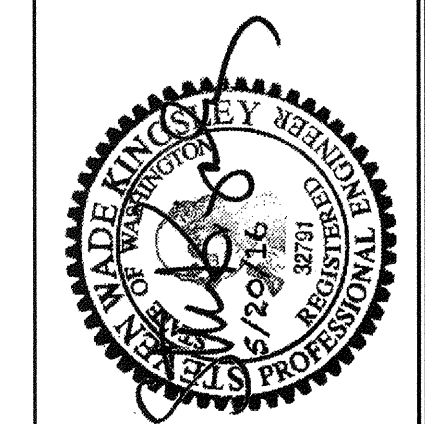
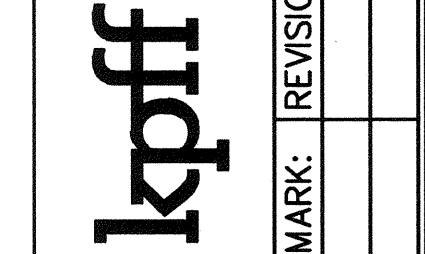
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BINDING EDGE

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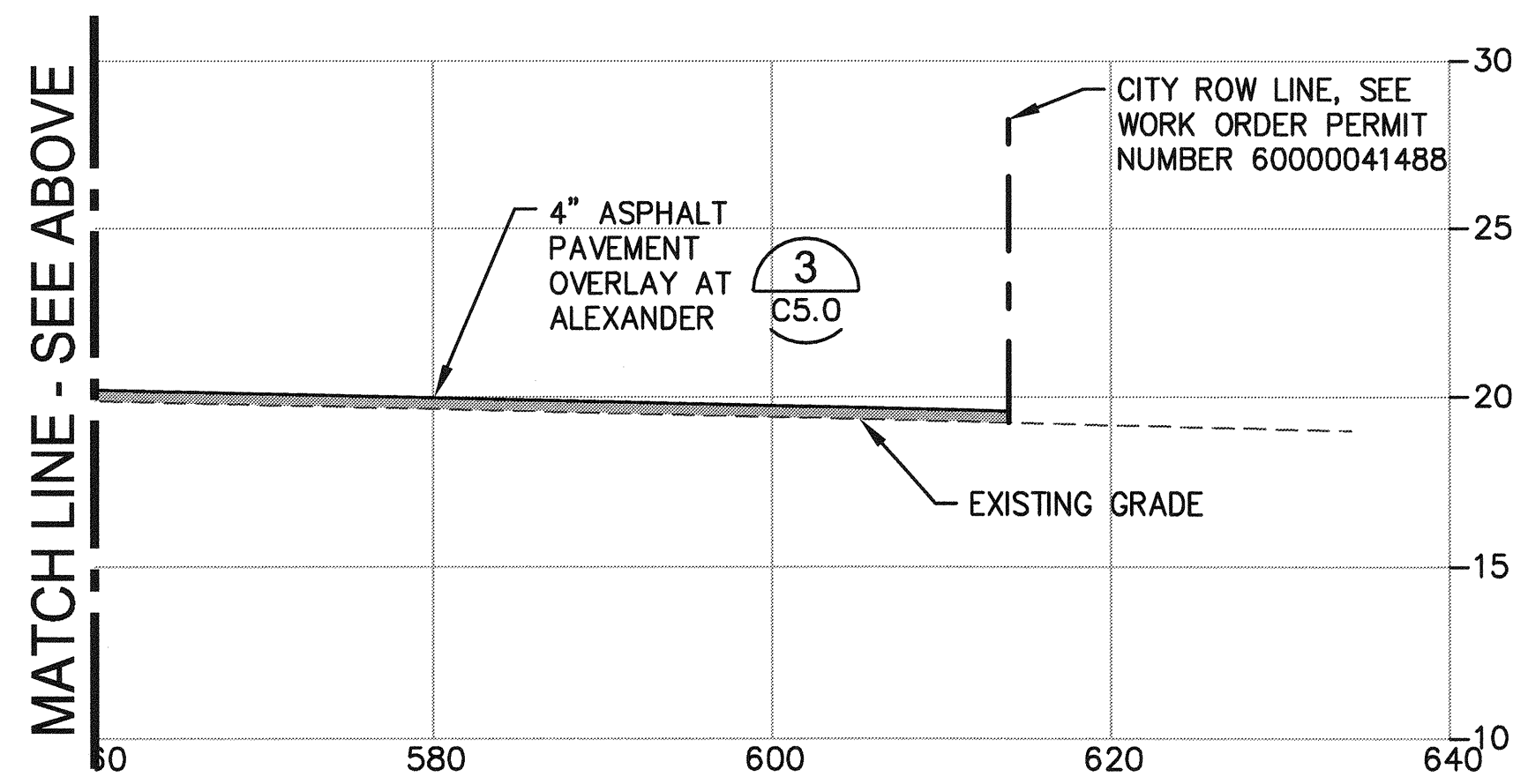
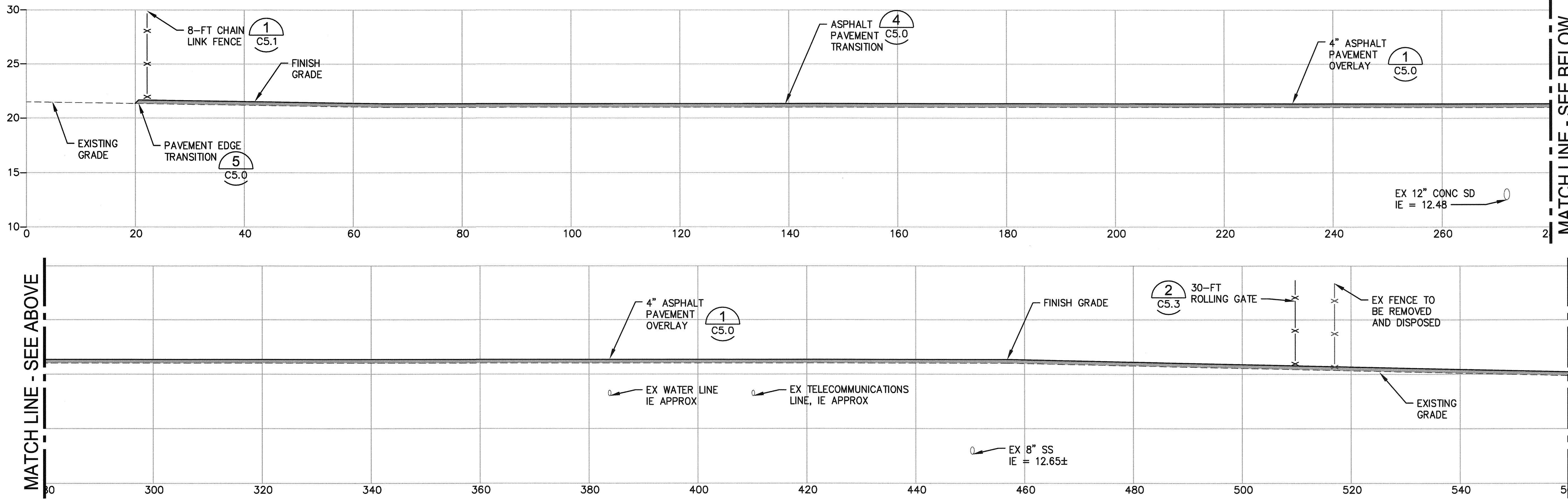


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<i>Michael J. Kucy</i>	CHECKED BY	DATE
	RCC	05/20/2016
	PROJ. ENGR	DATE
	PRINTED BY: rchandler	May 20, 2016
	PORT ADDRESS: ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

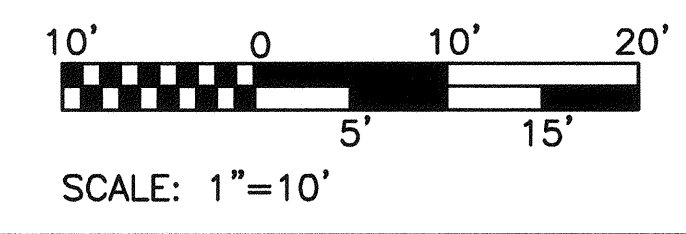
6556 C4.2 SHEET 19 OF 53	PCT TRUCK STAGING		
	PCT		
	SITE SECTIONS		
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CONTRACT NO.: 070287	TOWNSHIP: 20N	RANGE: 03E	SECTION: 01
M. ID.	DAT-HRZ:	VERT:	
PHASE: 100%	PARCEL: 5000350150	DRAWING SCALE: AS NOTED	AS NOTED

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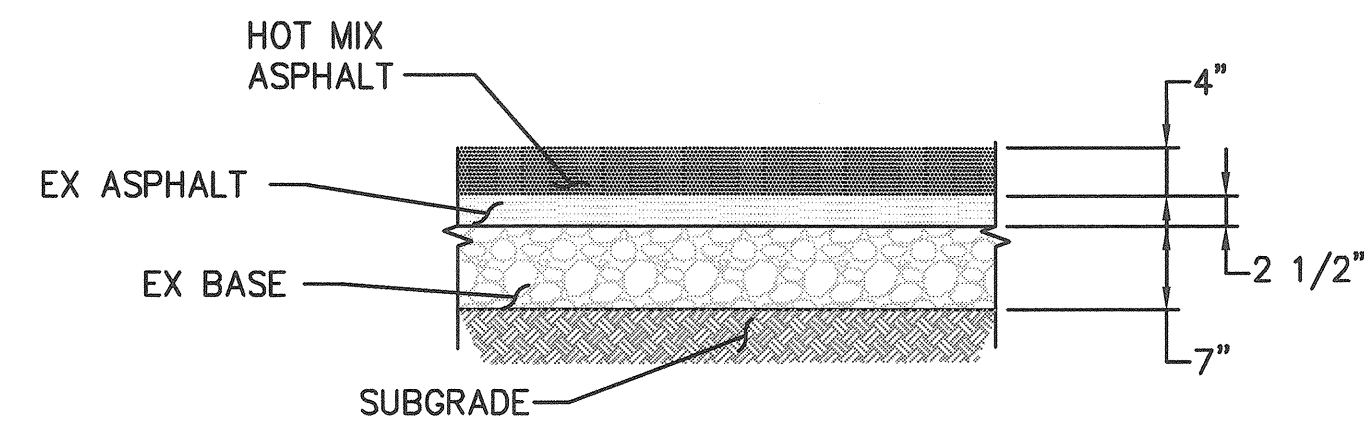


G ALEXANDER DRIVEWAY SECTION
 C2.1 SCALE: HORZ: 1" = 20', VERT: 1" = 5'

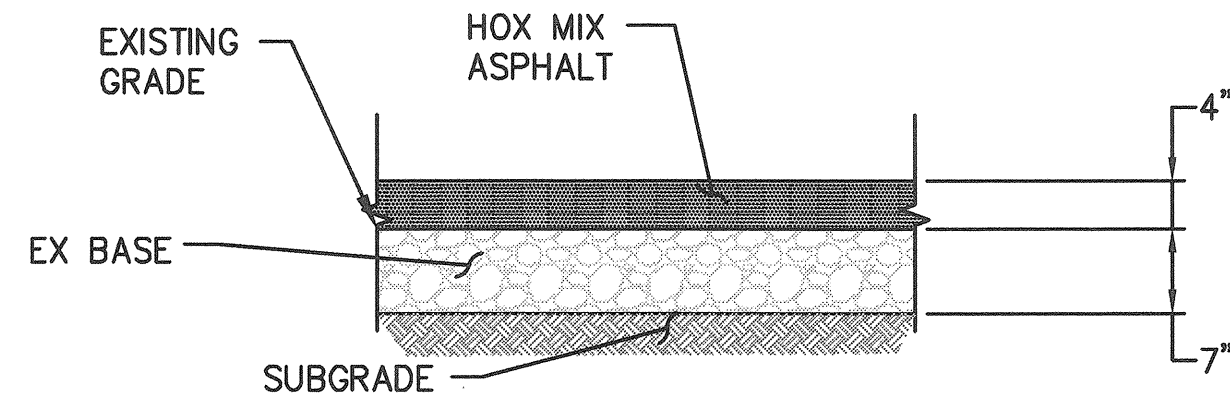


6556 C4.3 SHEET 20 OF 53	PCT TRUCK STAGING PCT SITE SECTIONS		SWK 05/20/2016 CHECKED BY DATE
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M. ID: 070287 PHASE: 100%	SECTION: 01 DRAWING SCALE: AS NOTED	DIRECTOR ENG. DATE PRINTED BY: rchandler May 20, 2016 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	APPROVED: <i>[Signature]</i> 6/2/16 DIRECTOR ENG. DATE
6556 Port of Tacoma 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 896-0120 Fax (253) 896-0152		kppf 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 896-0120 Fax (253) 896-0152	
		MADE IN WASHINGTON PROFESSIONAL SEAL 6/2/16	MARK: REVISION: BY: DATE: APPR:

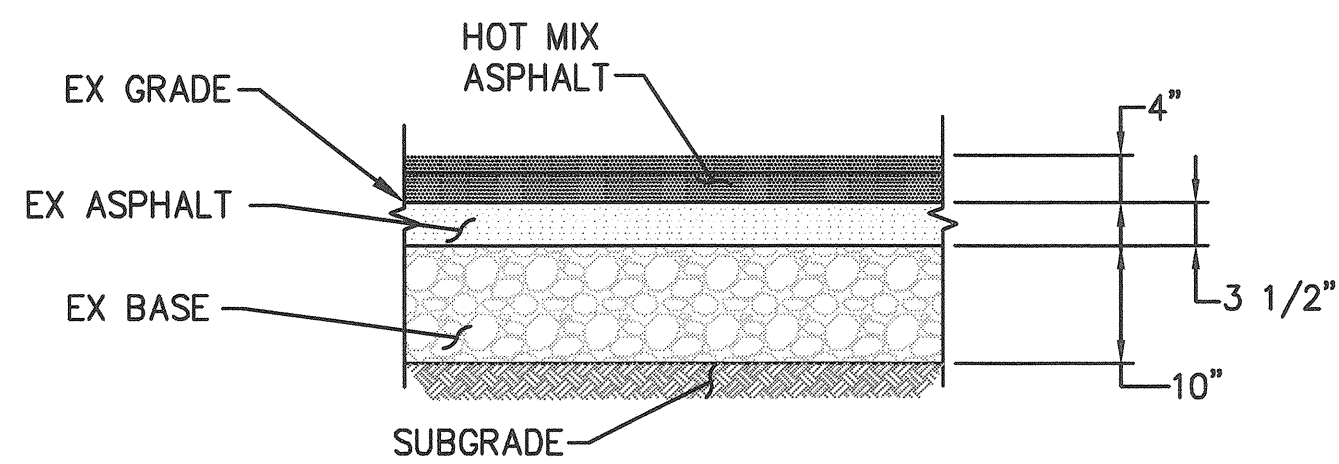
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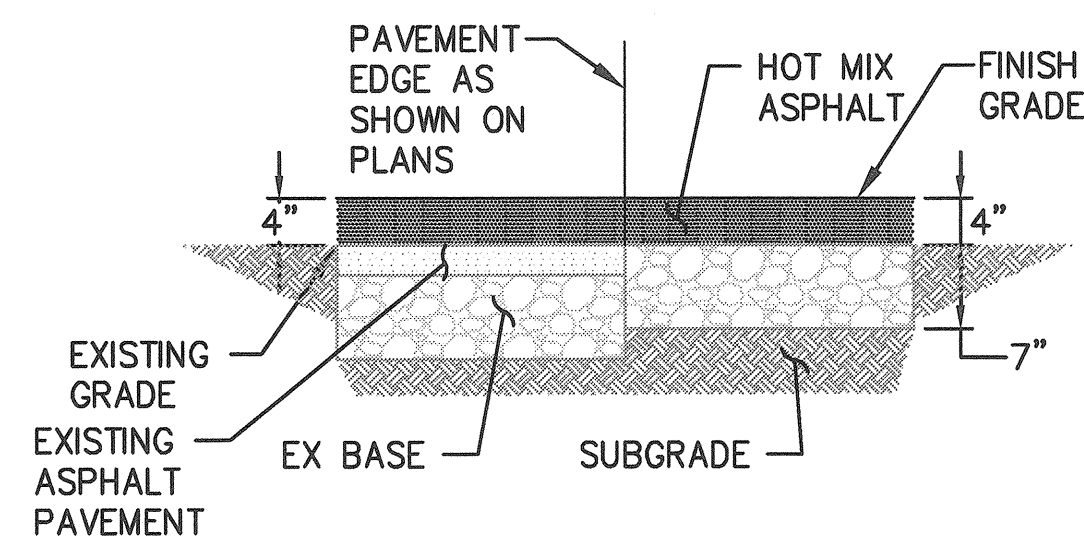
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C2.1-C2.2
ASPHALT PAVEMENT OVERLAY DETAIL
SCALE: 3/4"=1'-0"



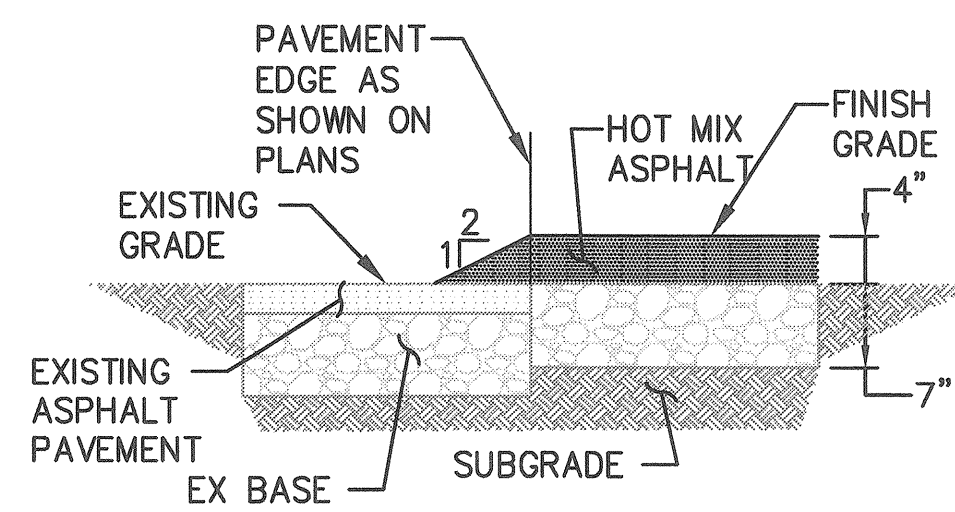
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C2.1-C2.2
ASPHALT PAVEMENT DETAIL
SCALE: 3/4"=1'-0"



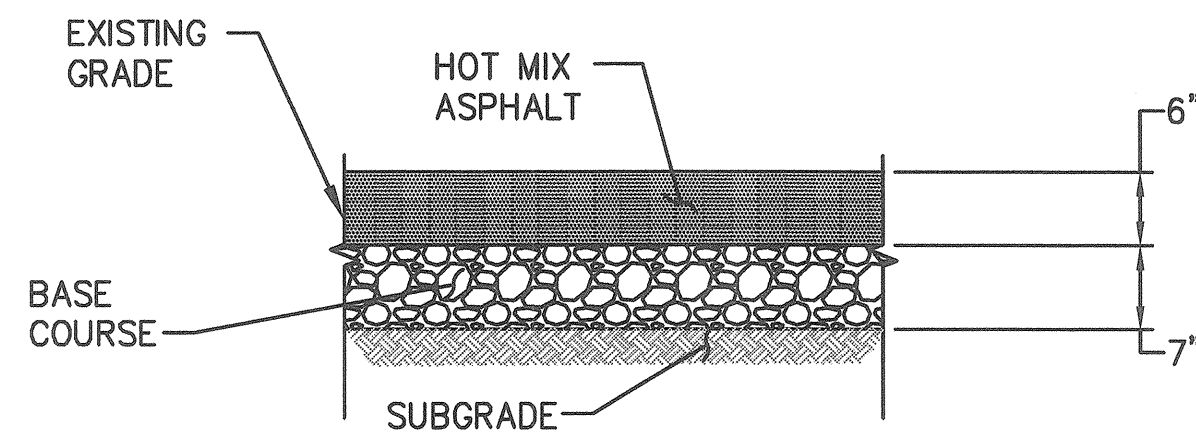
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C2.1
ASPHALT OVERLAY AT ALEXANDER AVE DETAIL
SCALE: 3/4"=1'-0"



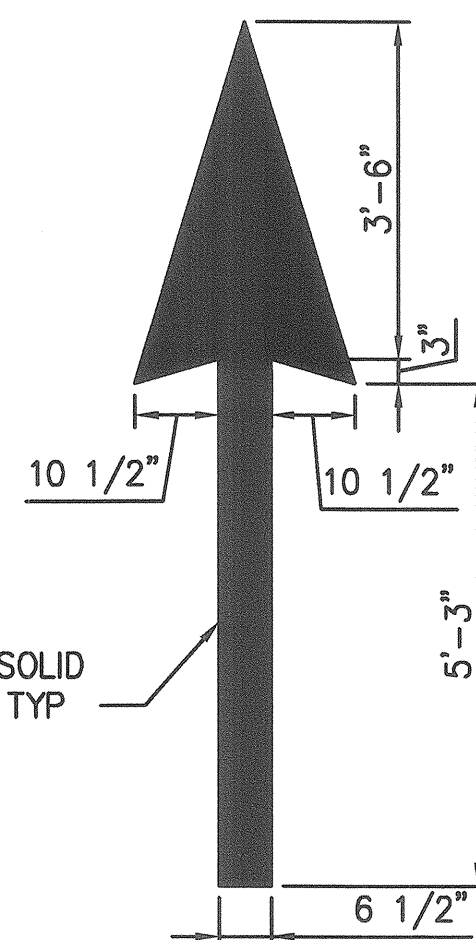
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C4.0-C4.3
ASPHALT PAVEMENT TRANSITION DETAIL
SCALE: 3/4"=1'-0"



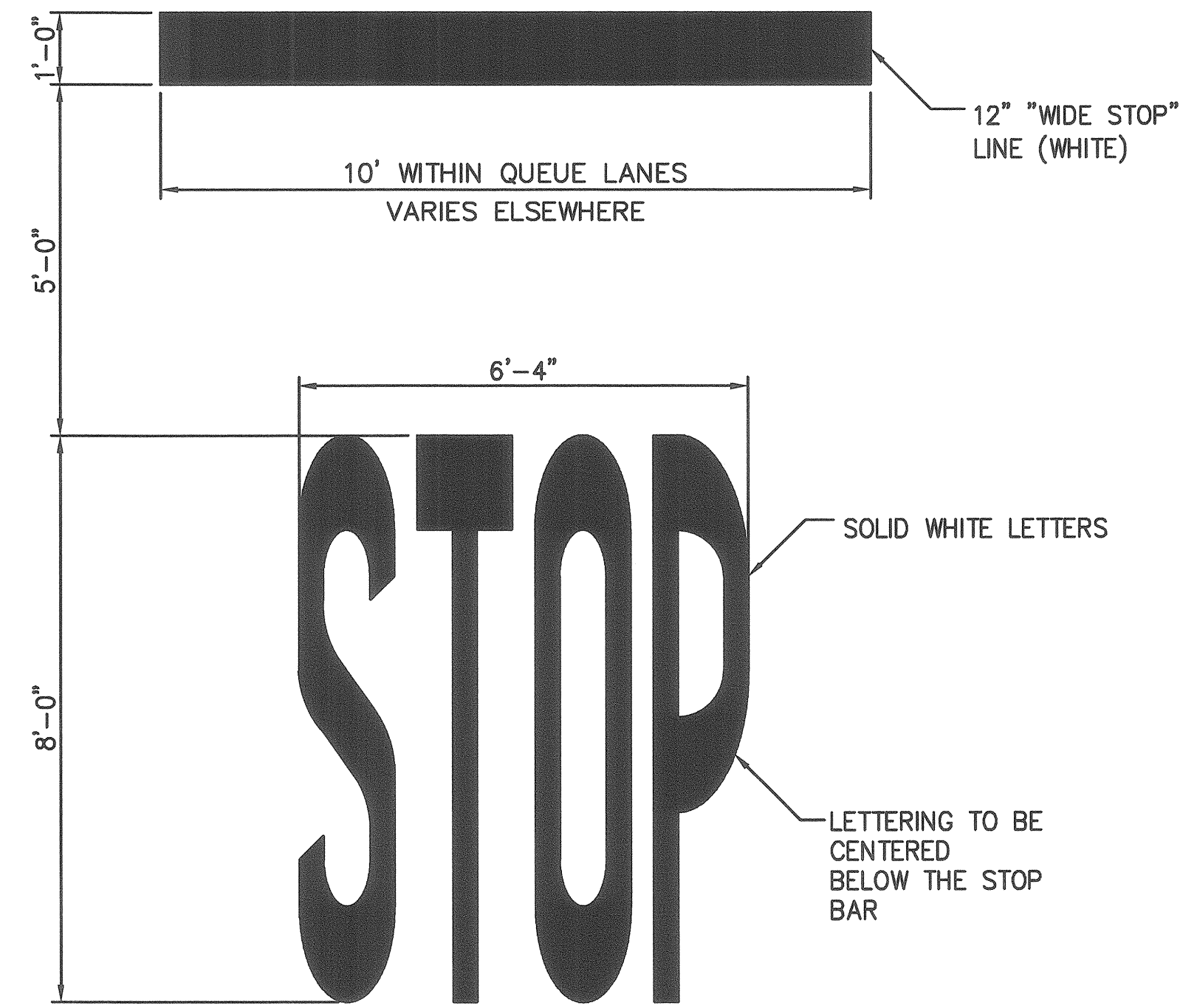
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C4.0-C4.3
PAVEMENT EDGE TRANSITION DETAIL
SCALE: 3/4"=1'-0"



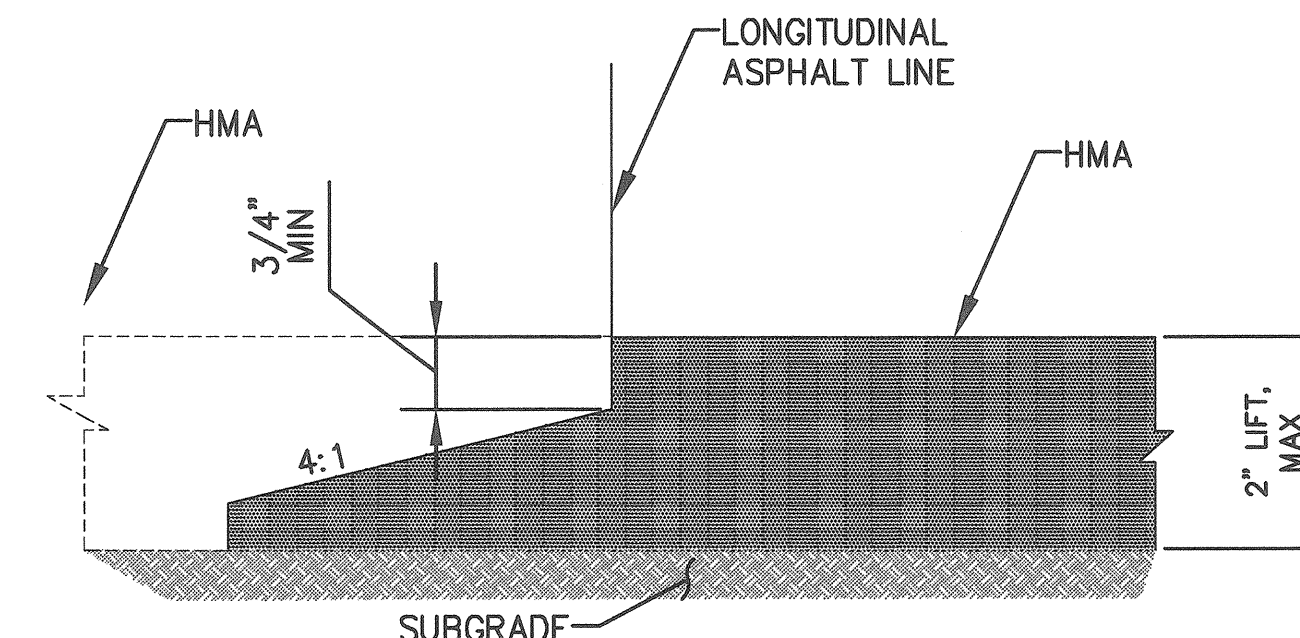
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C2.1-C2.2
ASPHALT PAVEMENT DETAIL
SCALE: 3/4"=1'-0"



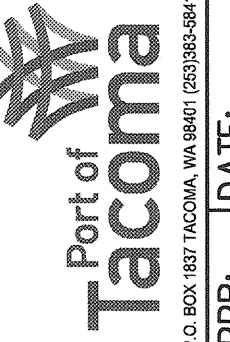
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C1.1-C1.2, C12.1
TRAFFIC ARROW DETAIL
SCALE: 1/2"=1'-0"



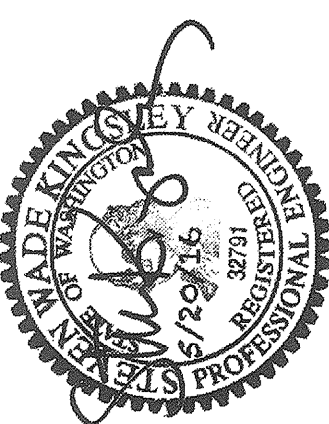
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C1.1
STOP BAR AND SYMBOL DETAIL
SCALE: 1/2"=1'-0"



9
LONGITUDINAL HMA STEP WEDGE JOINT DETAIL
SCALE: NTS



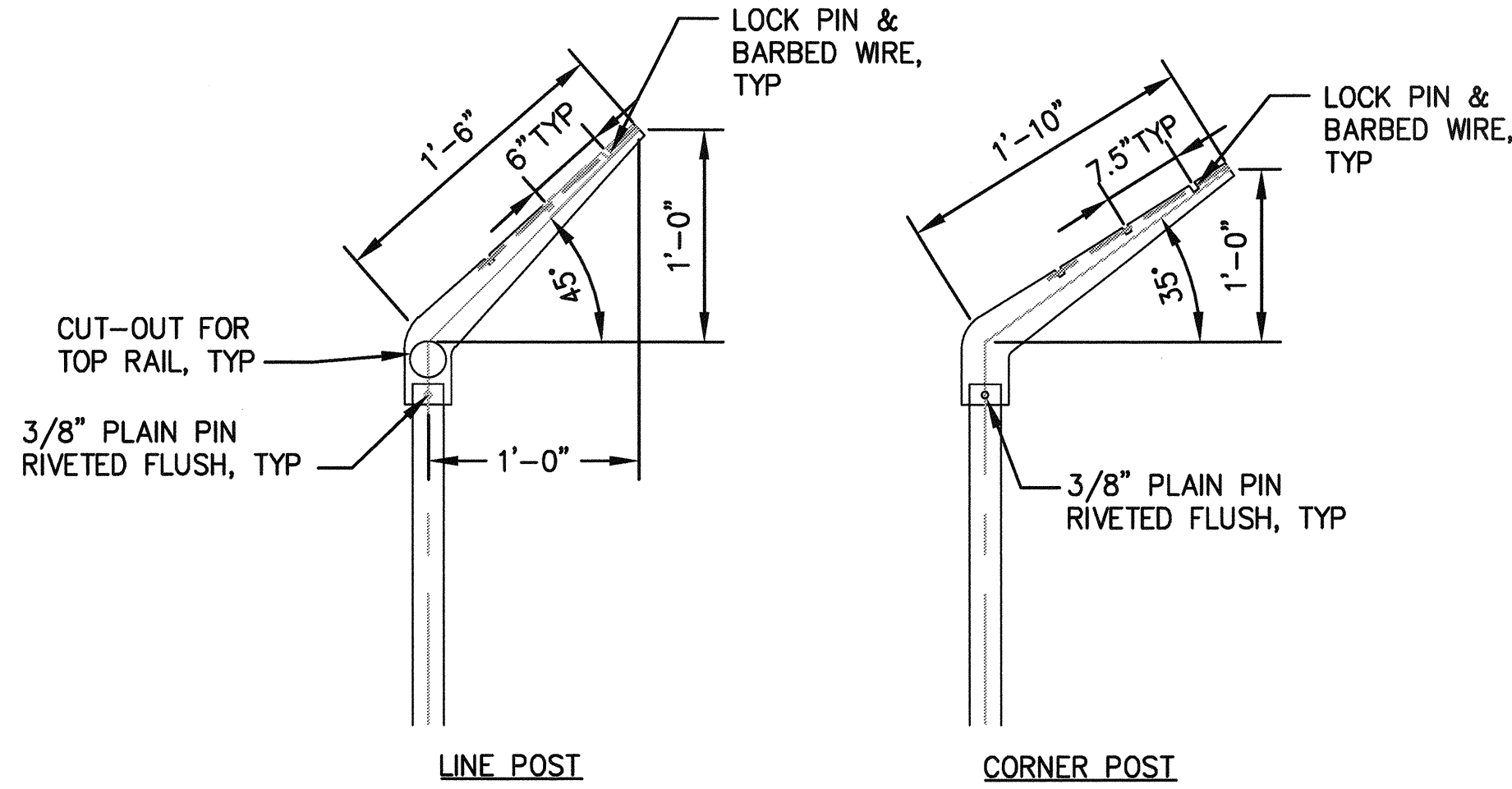
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<i>Wade Kinsey</i>	CHECKED BY	DATE
DIRECTOR	RGC	05/20/2016
ENG. DATE	PROJ. ENGR	DATE
6/6/16	Richard Mgy 20, 2016	
PRINTED BY:	PORT ADDRESS: ONE SITCUM PLAZA	
	TACOMA, WA 98401-1857	

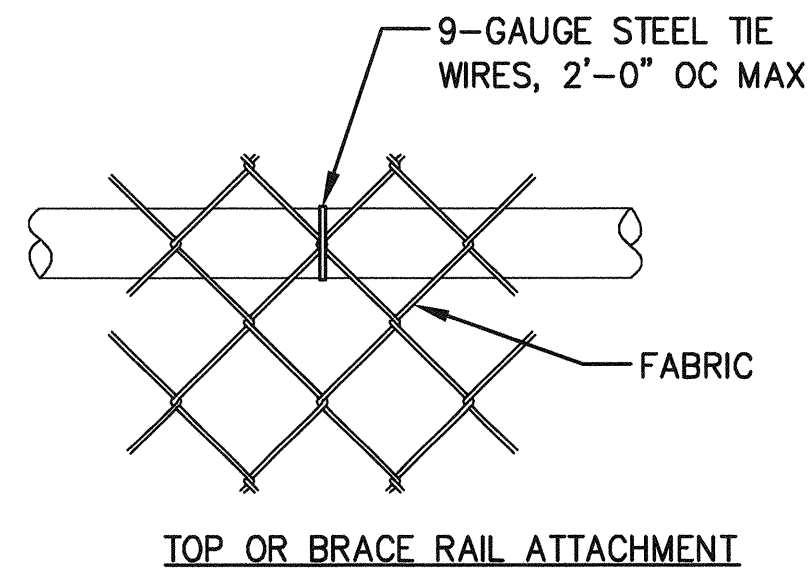
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	PAVING DETAILS		
	TOWNSHIP: 20N	RANGE: 03E	SECTION: 01
	DATE-HRZ:	VERT:	DRAWING SCALE: AS NOTED
PHASE: 100%	PARCEL: 5000350150		

NOTE: DIMENSIONS AND DRAWINGS OF FENCE DETAILS ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL SUBMIT ACTUAL PRODUCT FOR APPROVAL. SEE SPECIFICATIONS.

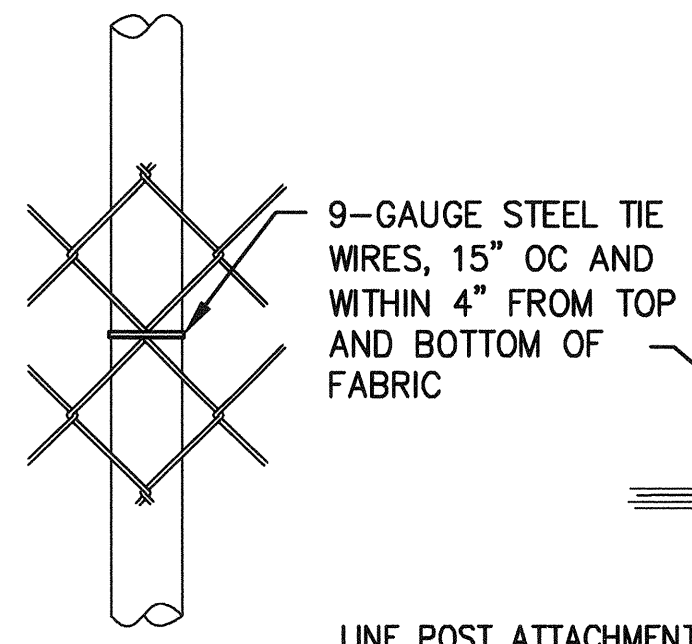


1 EXTENSION ARMS DETAIL

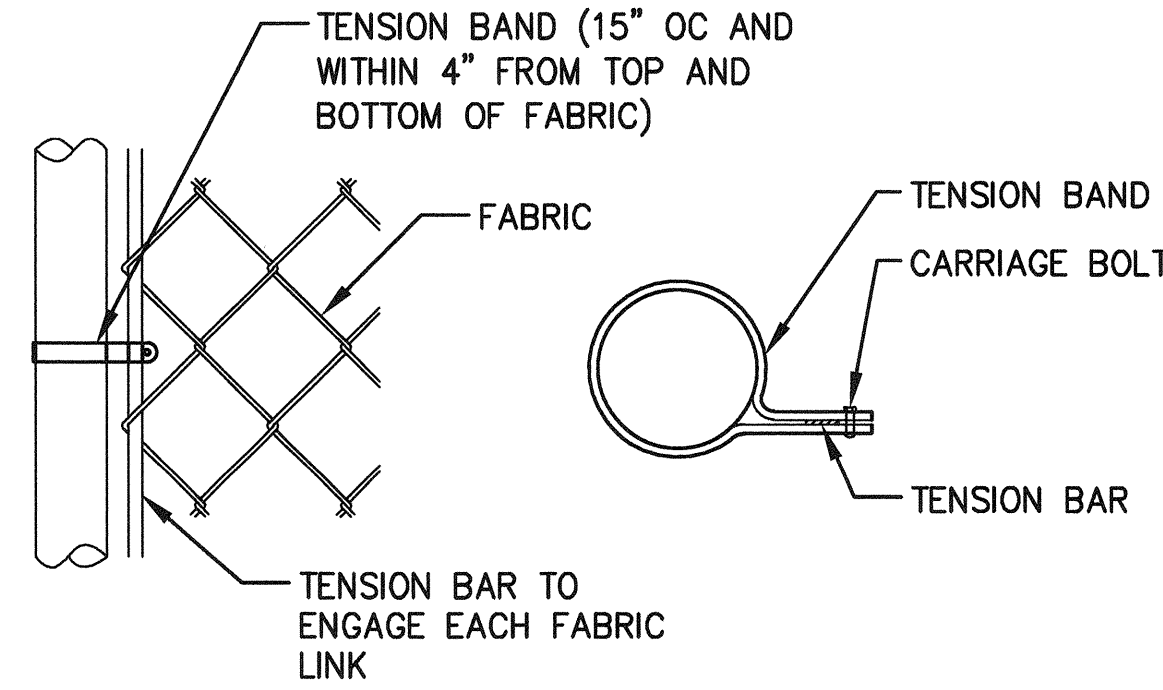
C5.1, C5.3, C12.3 SCALE: NTS



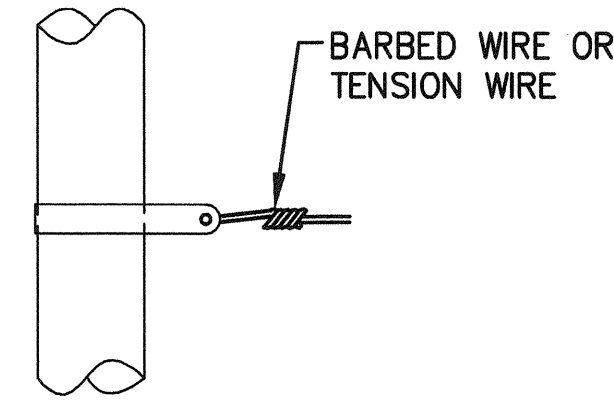
TOP OR BRACE RAIL ATTACHMENT



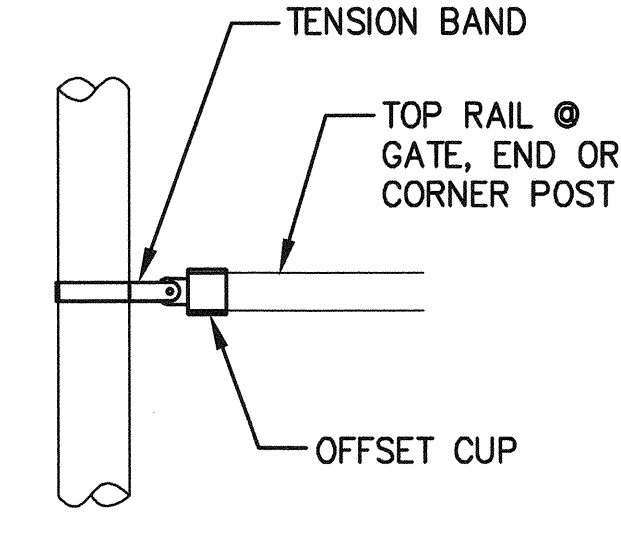
LINE POST ATTACHMENT



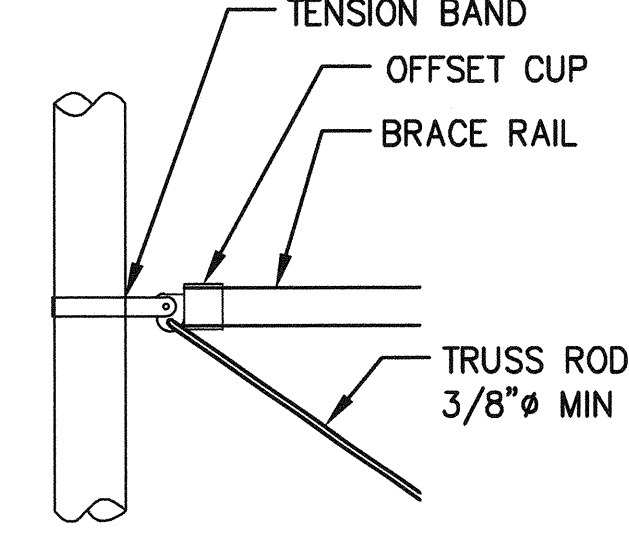
END OF GATE POST DETAIL



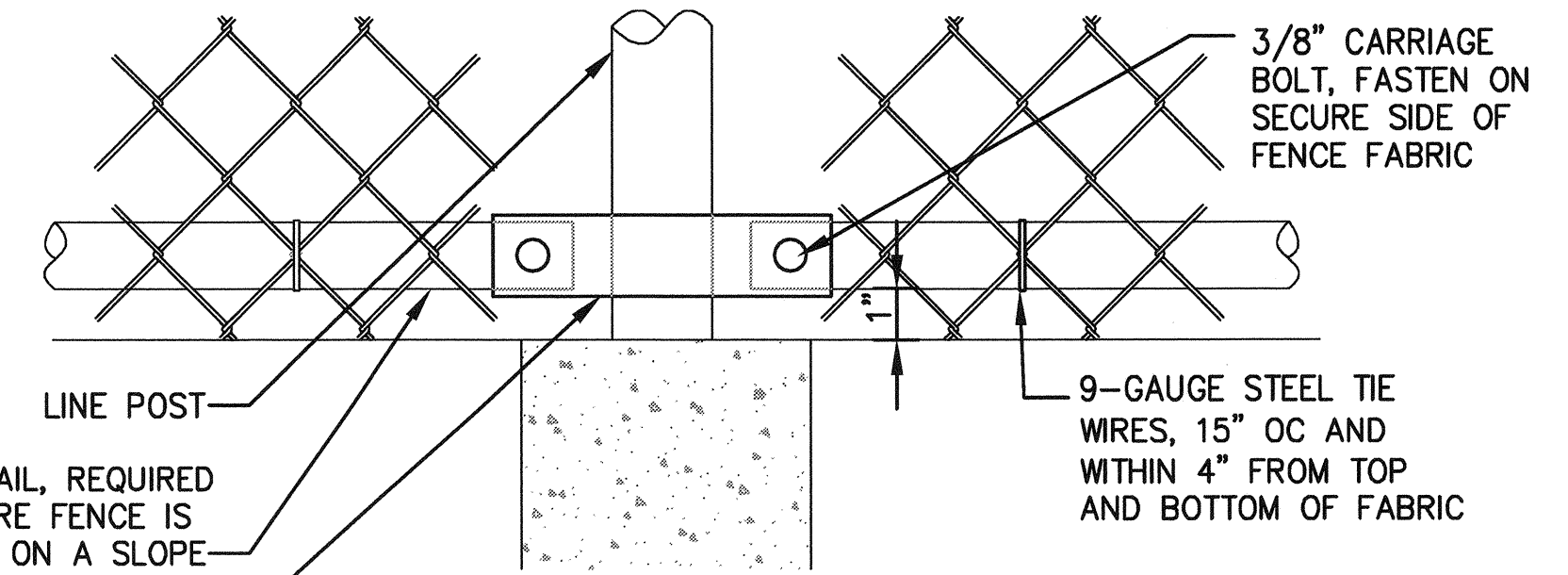
TENSION BAND DETAIL



TOP RAIL



BRACE RAIL

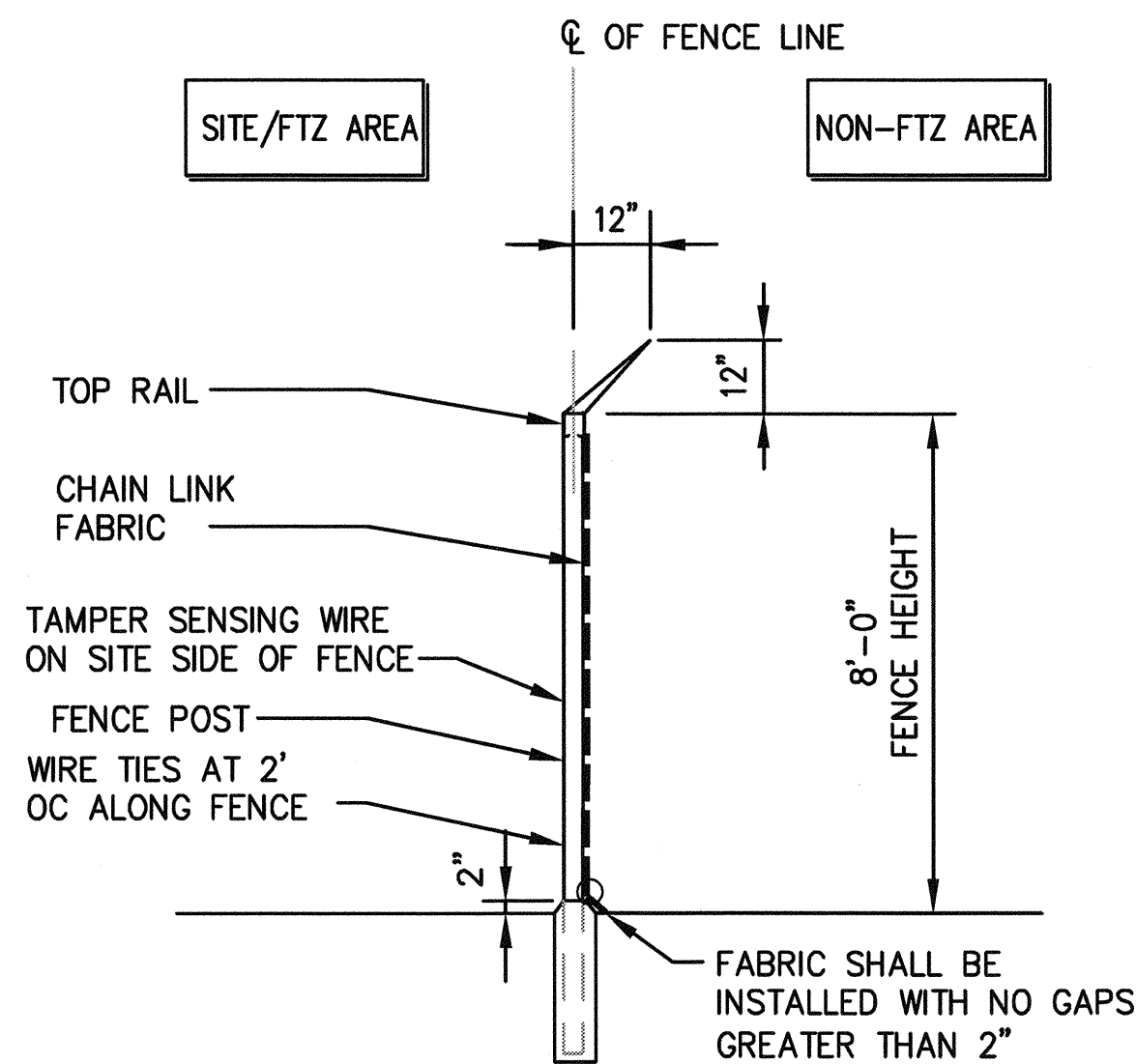


BOTTOM RAIL

NOTE: DIMENSIONS AND DRAWINGS OF FENCE CONNECTIONS ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL SUBMIT ACTUAL PRODUCT FOR APPROVAL. SEE SPECIFICATIONS.

2 FENCE CONNECTION DETAILS

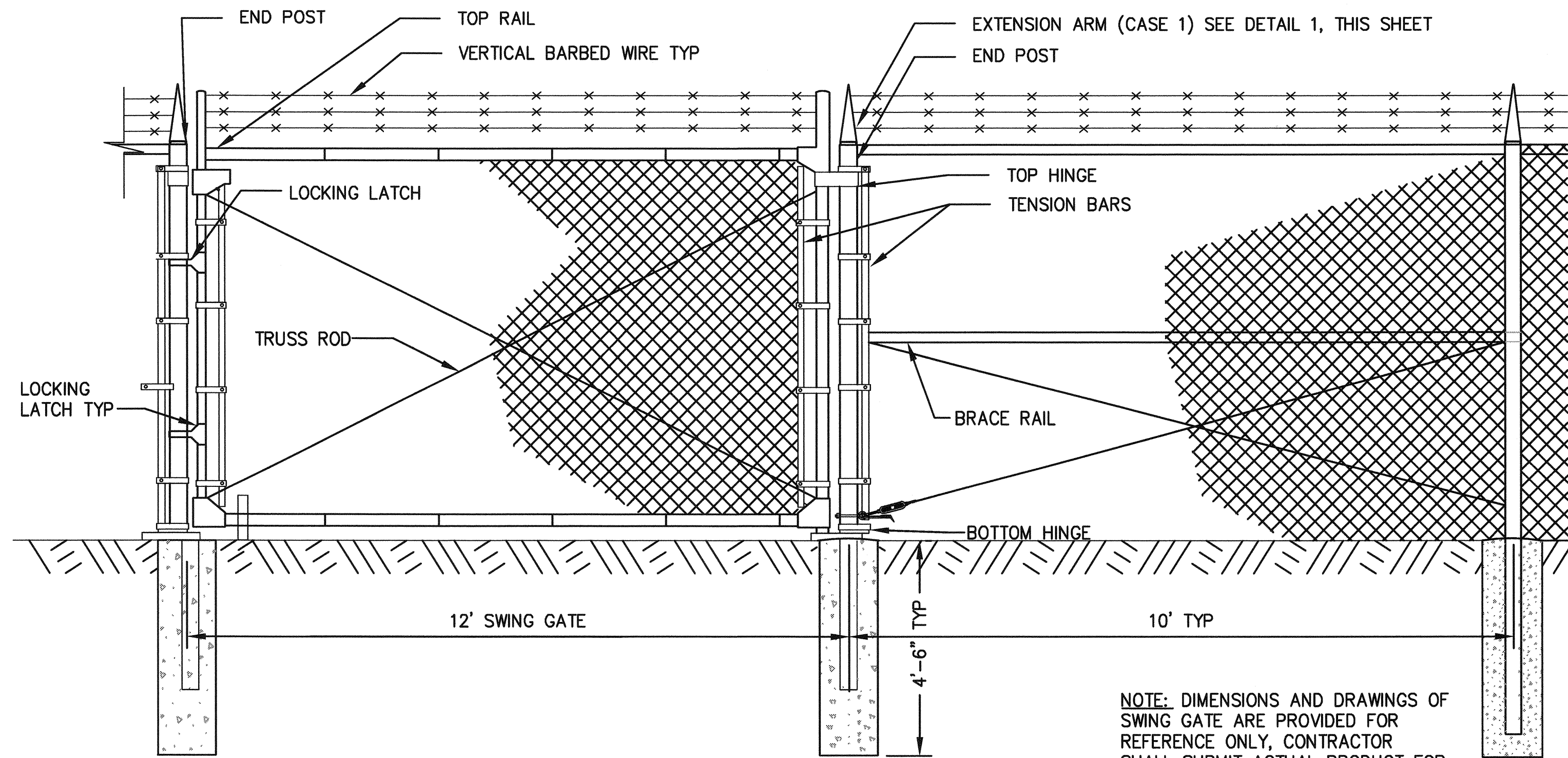
C5.1 SCALE: NTS



- NOTES:
- WHERE FENCING IS LOCATED ON A SLOPE THE CONTRACTOR SHALL INSTALL A BOTTOM RAIL.
 - THE SITE IS CONSIDERED A FOREIGN TRADE ZONE (FTZ AREA).

A TYPICAL FENCE SECTION

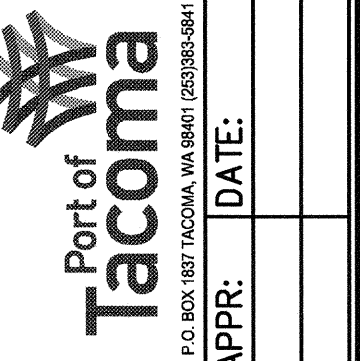
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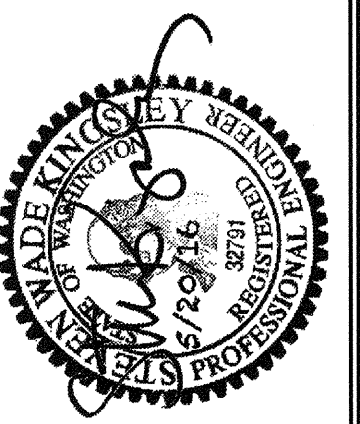
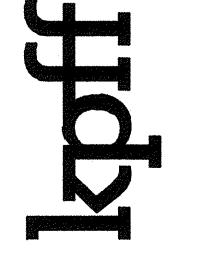
3 MANUAL CHAIN LINK SWING GATE, 12 FT-PCT DETAIL

C1.1 SCALE: NTS

NOTE: DIMENSIONS AND DRAWINGS OF SWING GATE ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL SUBMIT ACTUAL PRODUCT FOR APPROVAL. SEE SPECIFICATIONS.



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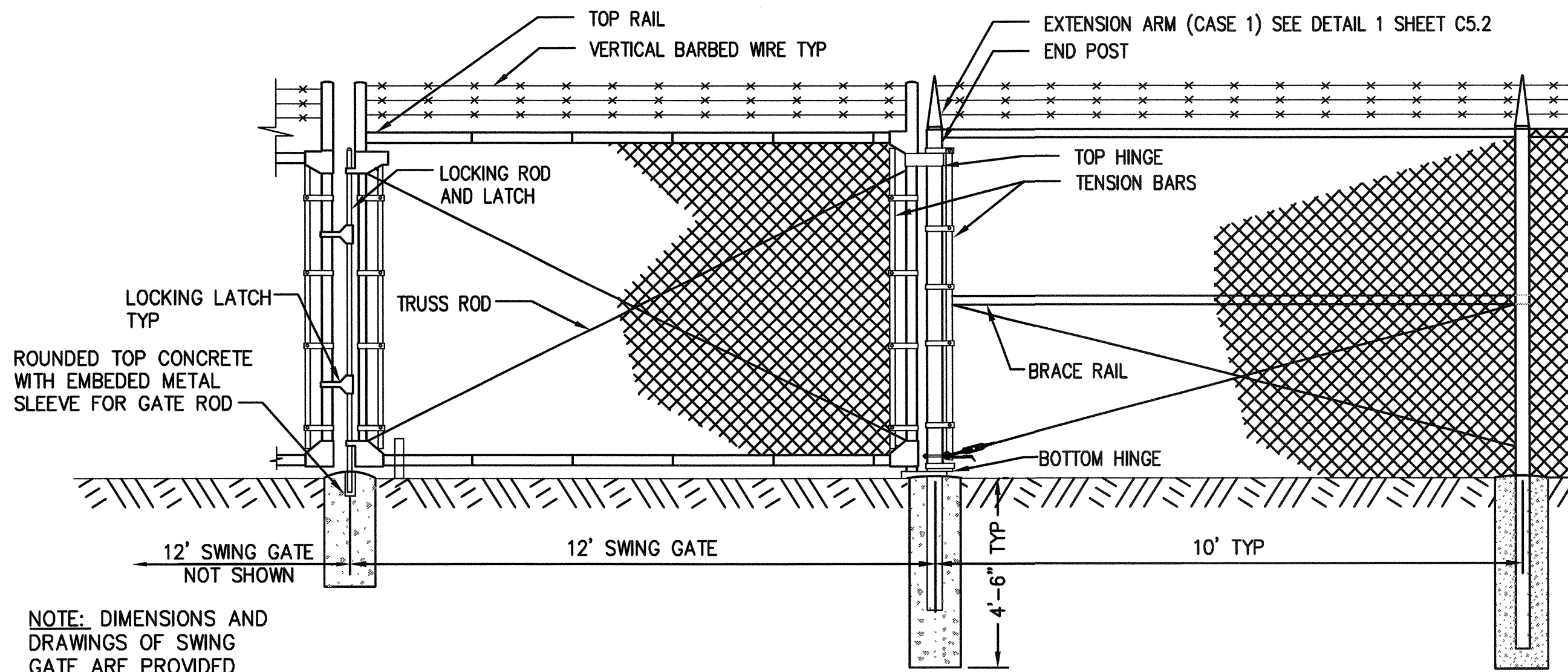
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DIRECTOR ENG. DATE:	6/2/16	
PRINTED BY:	rchandler	May 20, 2016
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PCT TRUCK STAGING	FENCING DETAILS	
	RANGE: 03E	SECTION: 01
	TOWNSHIP: 20N	DATE-HRZ:
	PARCEL: 5000350150	DRAWING SCALE: AS NOTED

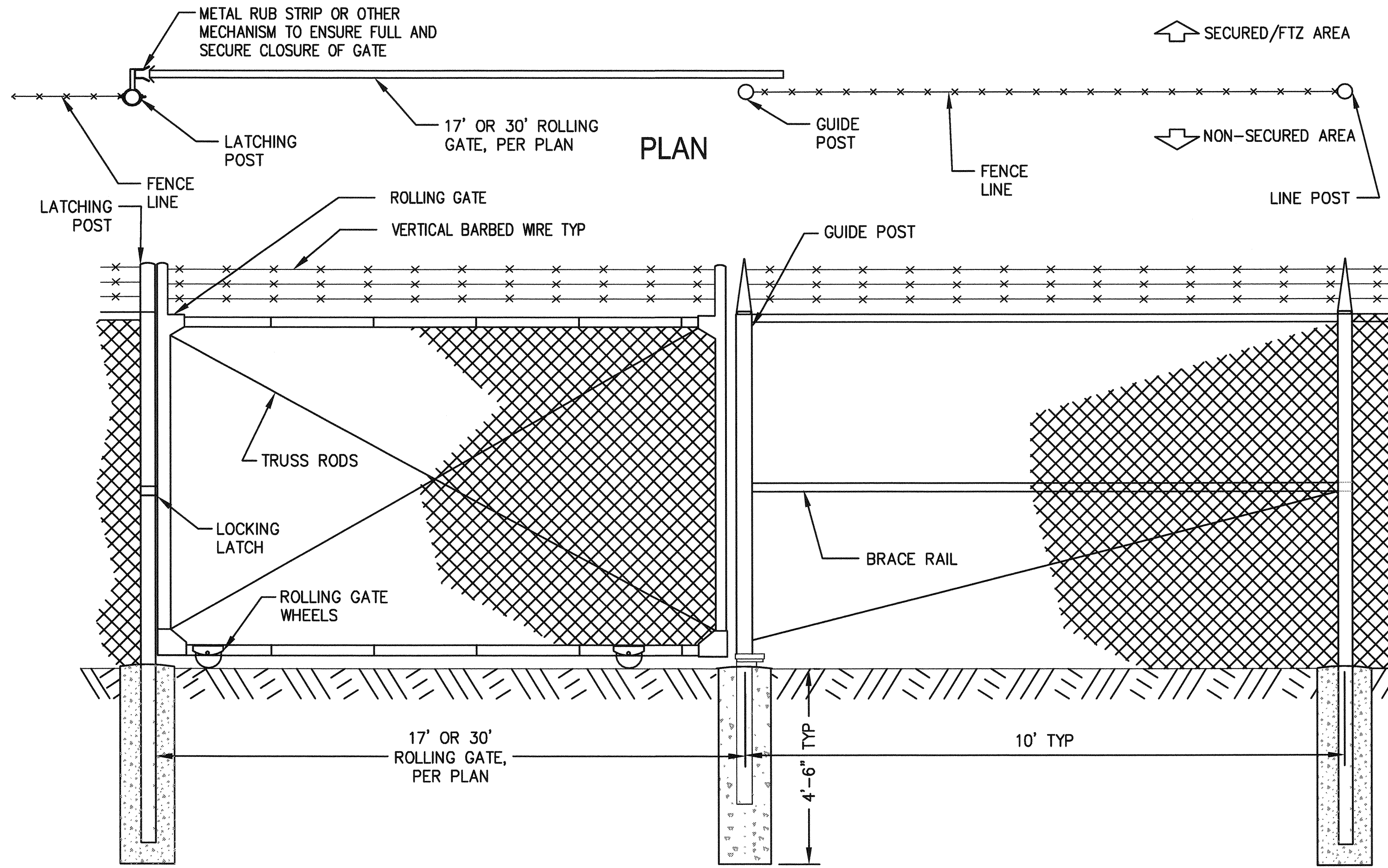
6356	C5.2
SHEET 23 OF 53	
CONT/CONS: 070287	
M. ID:	
PHASE: 100%	

BINDING EDGE



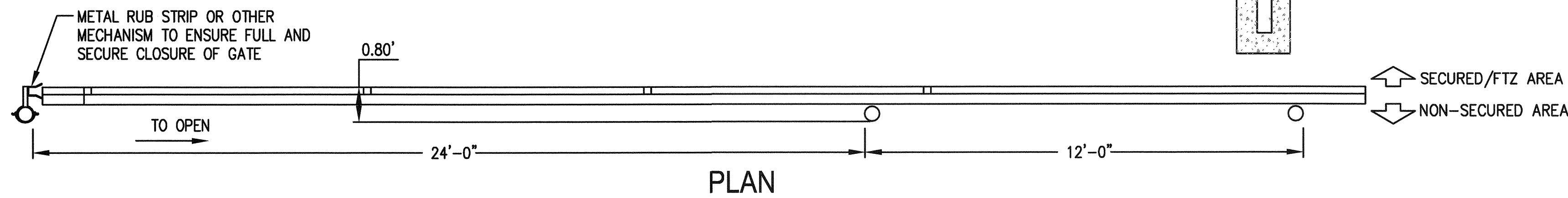
NOTE: DIMENSIONS AND DRAWINGS OF SWING GATE ARE PROVIDED FOR REFERENCE ONLY, CONTRACTOR SHALL SUBMIT ACTUAL PRODUCT FOR APPROVAL. SEE SPECIFICATIONS.

1 MANUAL CHAIN LINK DOUBLE SWING GATE, 24 FT-PCT DETAIL
C1.1, C11.1 SCALE: NTS

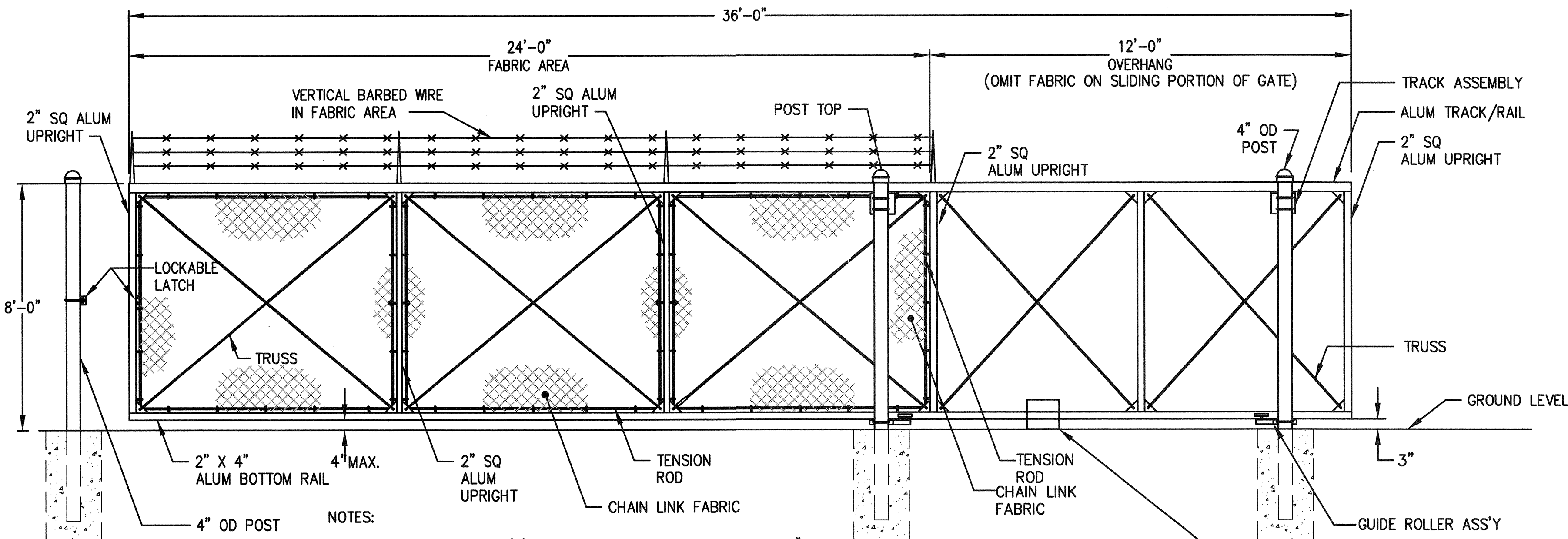


2 MANUAL CHAIN LINK ROLLING GATE, 17 FT OR 30 FT-PCT DETAIL
C1.1 SCALE: NTS

NOTE: DIMENSIONS AND DRAWINGS OF ROLLING GATE ARE PROVIDED FOR REFERENCE ONLY, CONTRACTOR SHALL SUBMIT ACTUAL PRODUCT FOR APPROVAL. SEE SPECIFICATIONS.



PLAN



NOTES:

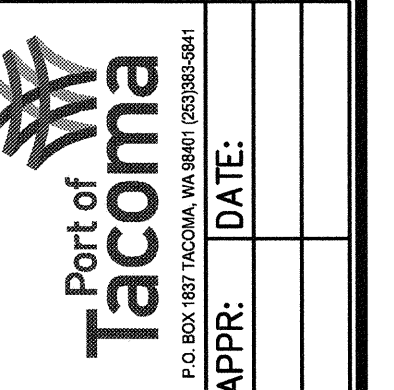
- FOOTING WIDTH TO BE (4)X POST WIDTH. MIN DEPTH TO BE 42".
- GATES SHALL BE ELECTRICALLY OPERATED.
- CONTRACTOR SHALL COORDINATE LOCATION OF SECURITY MONITORING MOUNTS WITH ENGINEER.

3 MOTORIZED CHAIN LINK GATE WITH CARD READERS, 24 FT-PCT DETAIL
C1.1, C5.8 SCALE: NTS

CONTRACTOR SHALL PROVIDE WIRING, POWER CONNECTIONS, MOTOR, CONTROLS AND SYSTEM SHALL WORK WITH CARD READERS. MOTOR SHALL HAVE CONTROLLER THAT IS OPERATED BY CARD READERS ON EACH SIDE OF GATE. PROVIDE A CONCRETE PAD FOR GATE OPERATOR PER MANUFACTURERS RECOMMENDATIONS.

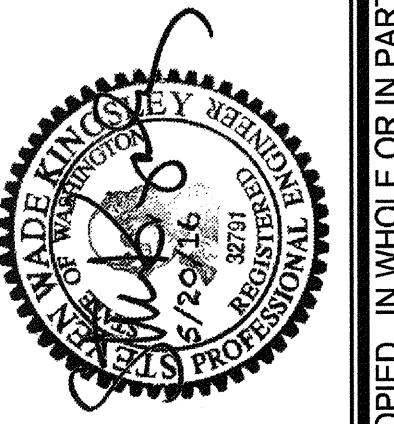
1 C5.4

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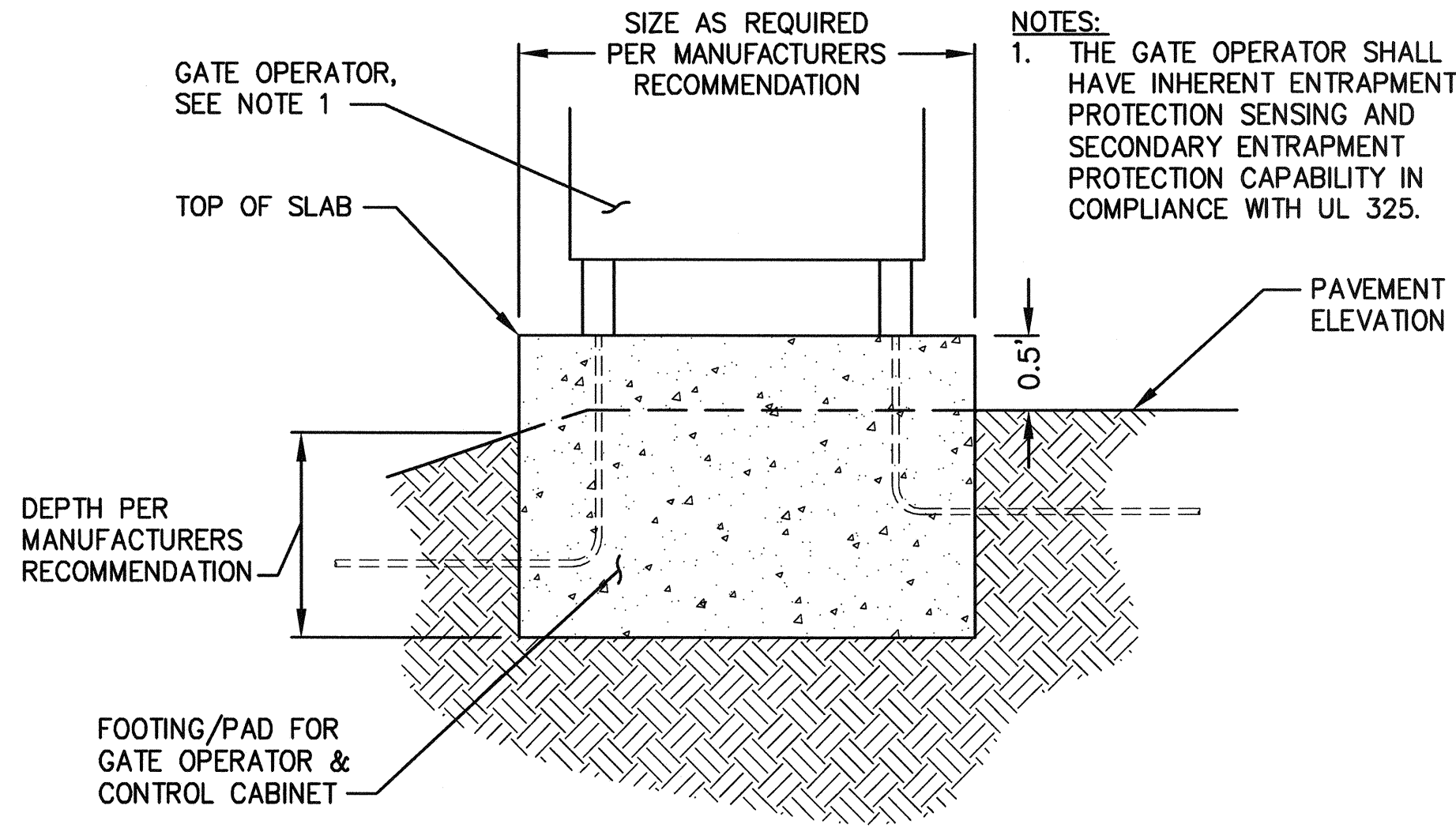
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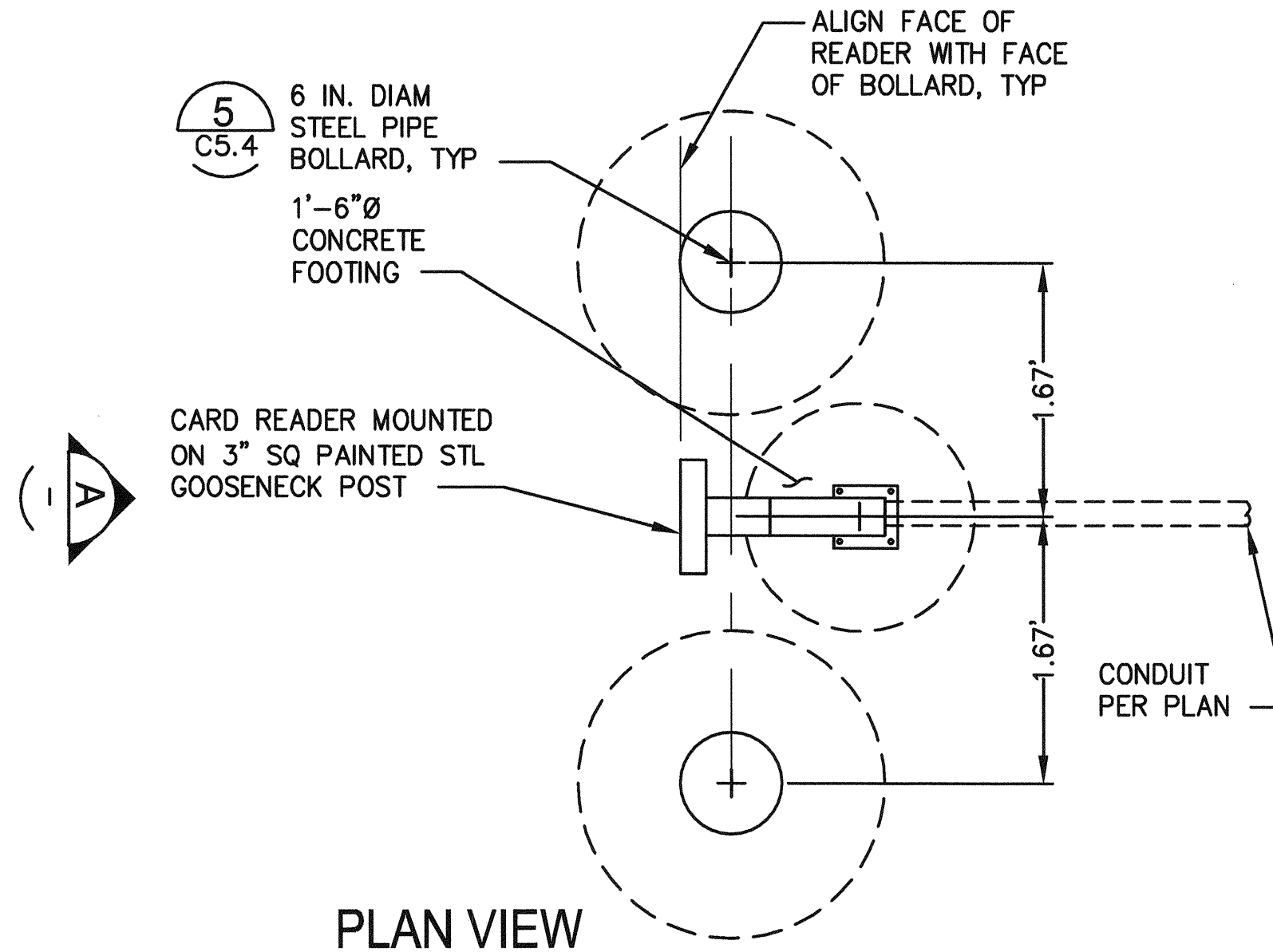
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<i>Wade Kinsey</i>	CHECKED BY	DATE
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PCT TRUCK STAGING	
FENCING DETAILS	
TOWNSHIP: 20N	RANGE: 03E
SECTION: 01	VERT:
PARCEL: 5000350150	DRAWING SCALE: AS NOTED
6556	
C5.3	
SHEET 24 OF 53	
CONT/CONS: 070287	
M. ID:	
PHASE: 100%	

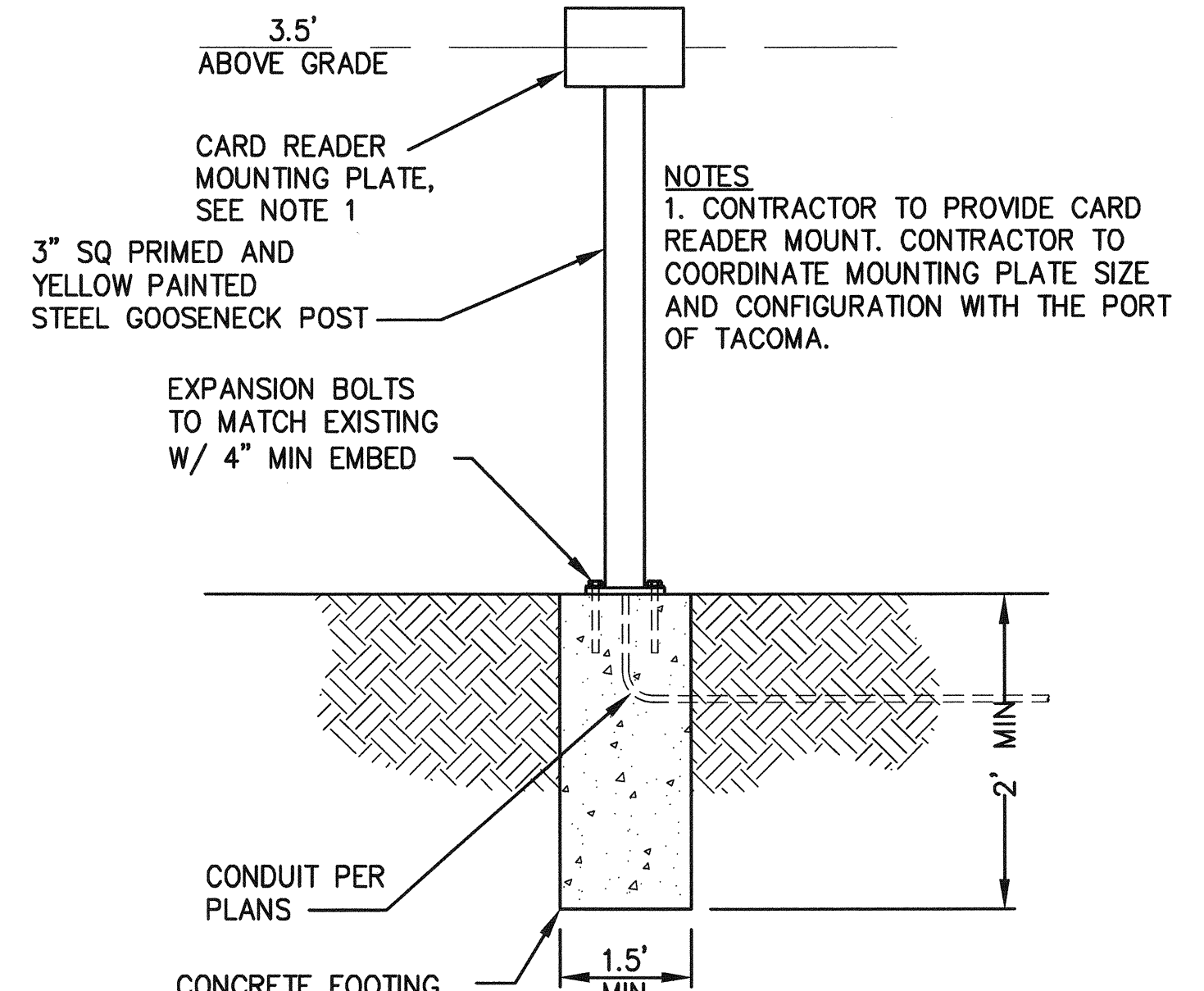
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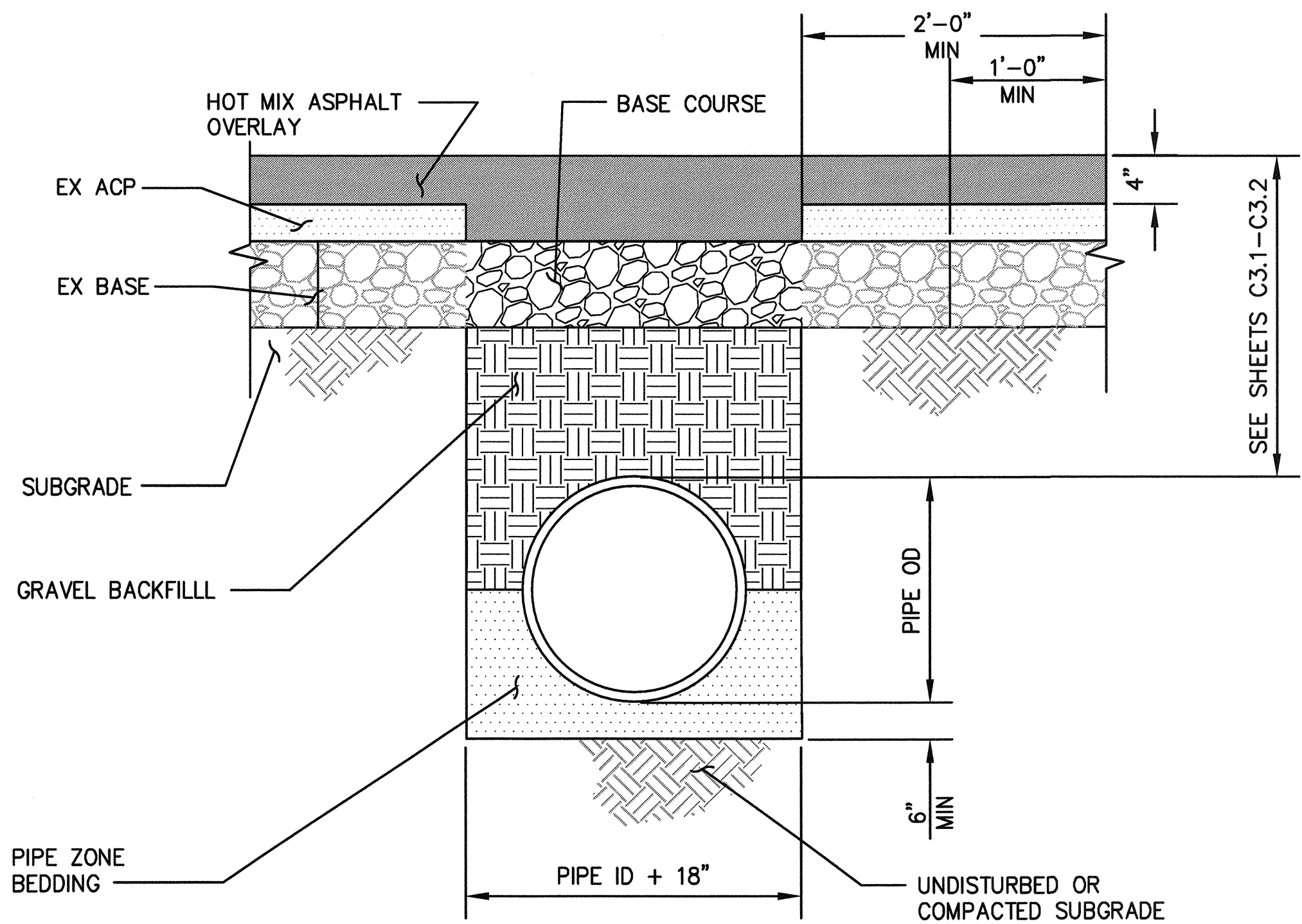
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GATE OPERATOR FOOTING DETAIL
C1.1,C5.3,C5.8 SCALE: NTS



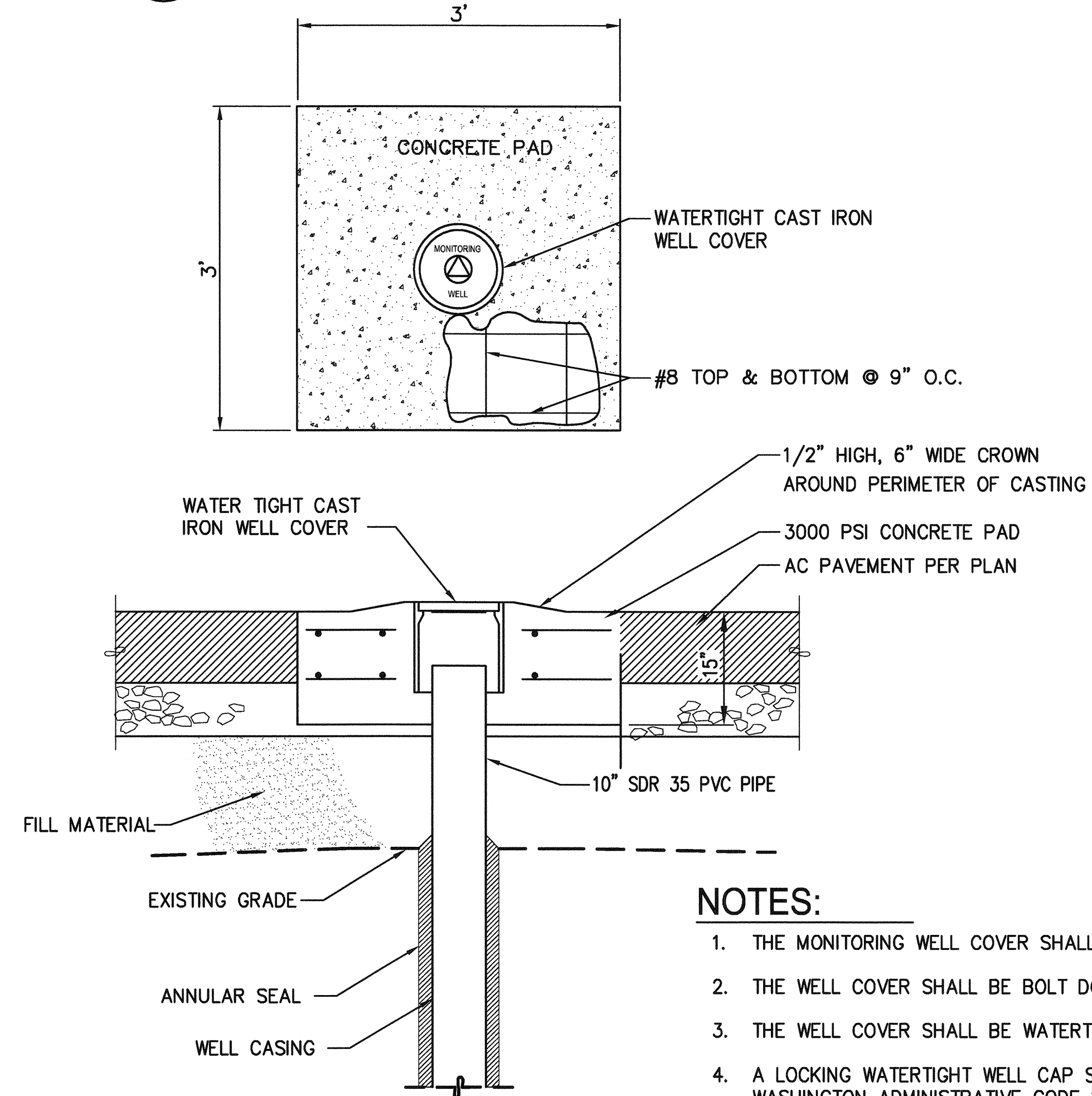
2
CARD READER WITH BOLLARDS DETAIL
C1.1,C5.3,C5.8,C12.1 SCALE: NTS



ELEVATION - A



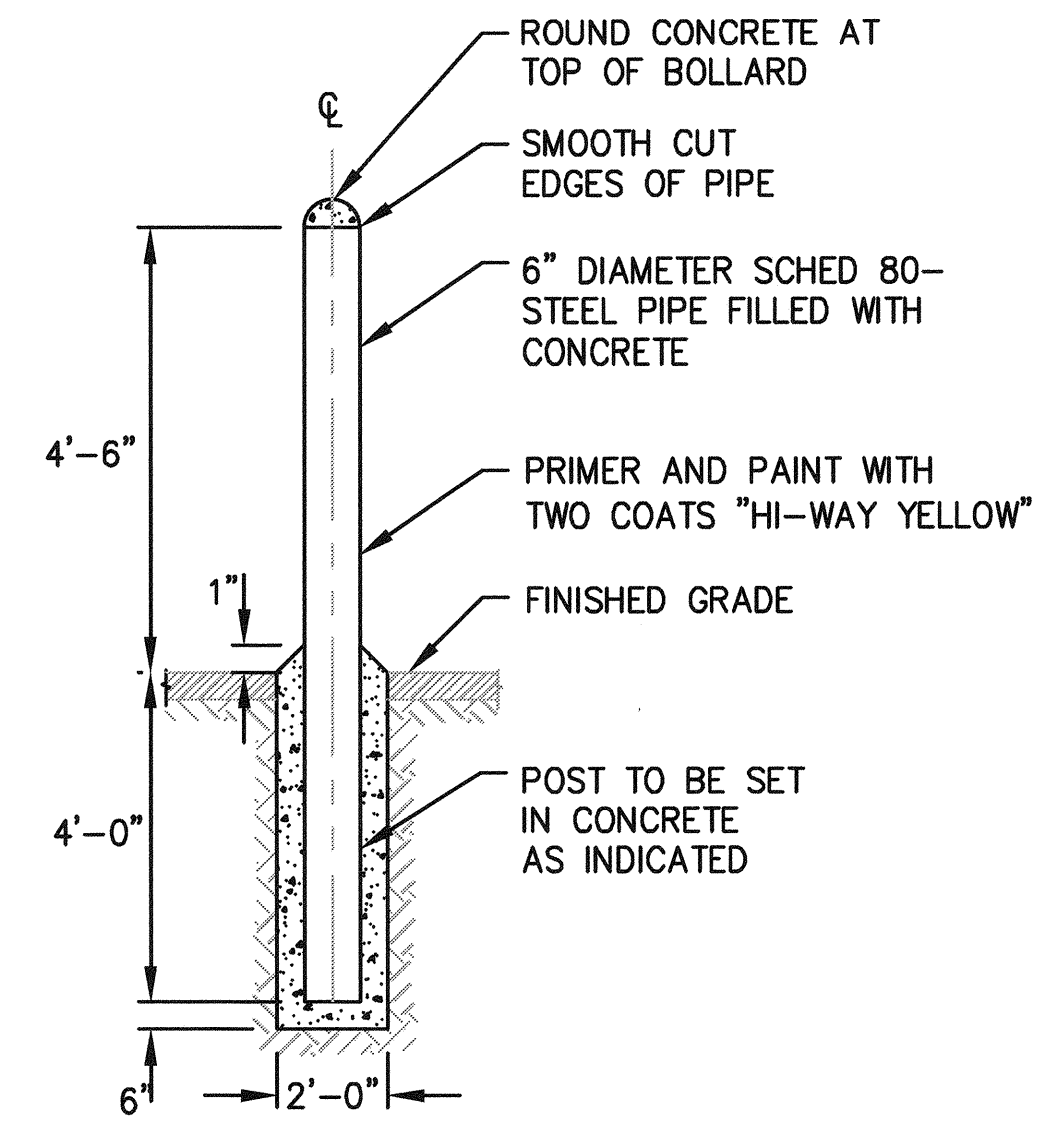
3
UTILITY TRENCH DETAIL
C3.1-3.2 SCALE: NTS



4
MONITORING WELL PROTECTION DETAIL
C3.2 SCALE: NTS

- NOTES:**
1. THE MONITORING WELL COVER SHALL HAVE CASE LETTERING INDICATING "MONITORING WELL".
 2. THE WELL COVER SHALL BE BOLT DOWN.
 3. THE WELL COVER SHALL BE WATERTIGHT TO PROTECT AGAINST ENTRY OF SURFACE WATER.
 4. A LOCKING WATERTIGHT WELL CAP SHALL BE INSTALLED AT THE TOP OF THE WELL CASING IN ACCORDANCE WITH WASHINGTON ADMINISTRATIVE CODE SECTION 173-160-420.
 5. CONSTRUCTION, ALTERATION AND RECONSTRUCTION OF MONITORING WELLS SHALL BE PERFORMED BY AN INDIVIDUAL LICENSED UNDER CHAPTER 173-162 OF THE WASHINGTON ADMINISTRATIVE CODE.
 6. RECONSTRUCTION PLAN SHALL BE SUBMITTED TO THE PORT AND APPROVED BY THE PORT PRIOR TO PERFORMING THE WORK

5
BOLLARD DETAIL
C5.4,C5.8,C12.1 SCALE: NTS



2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(252) 396-0130 Fax (252) 396-0162

WADE KING
PROFESSIONAL ENGINEER
NO. 122915
EXPIRES 12/31/16

Port of Tacoma
P.O. BOX 987 TACOMA, WA 98401-0987

APPROVED: *[Signature]*

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PCT TRUCK STAGING

DETAILS

RANGE: 03E SECTION: 01

DRAWING SCALE: AS NOTED

6556
C5.4
SHEET 25 OF 53

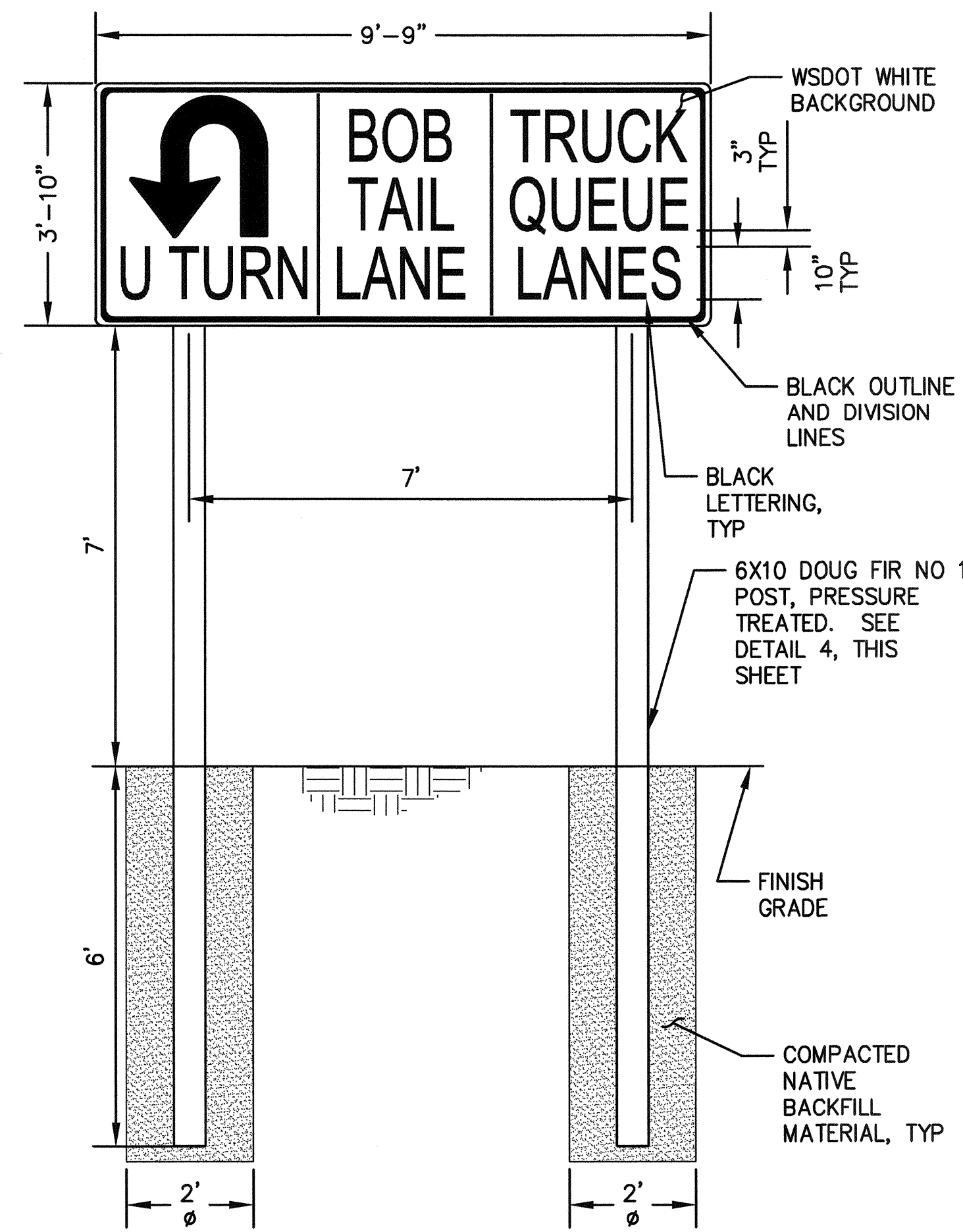
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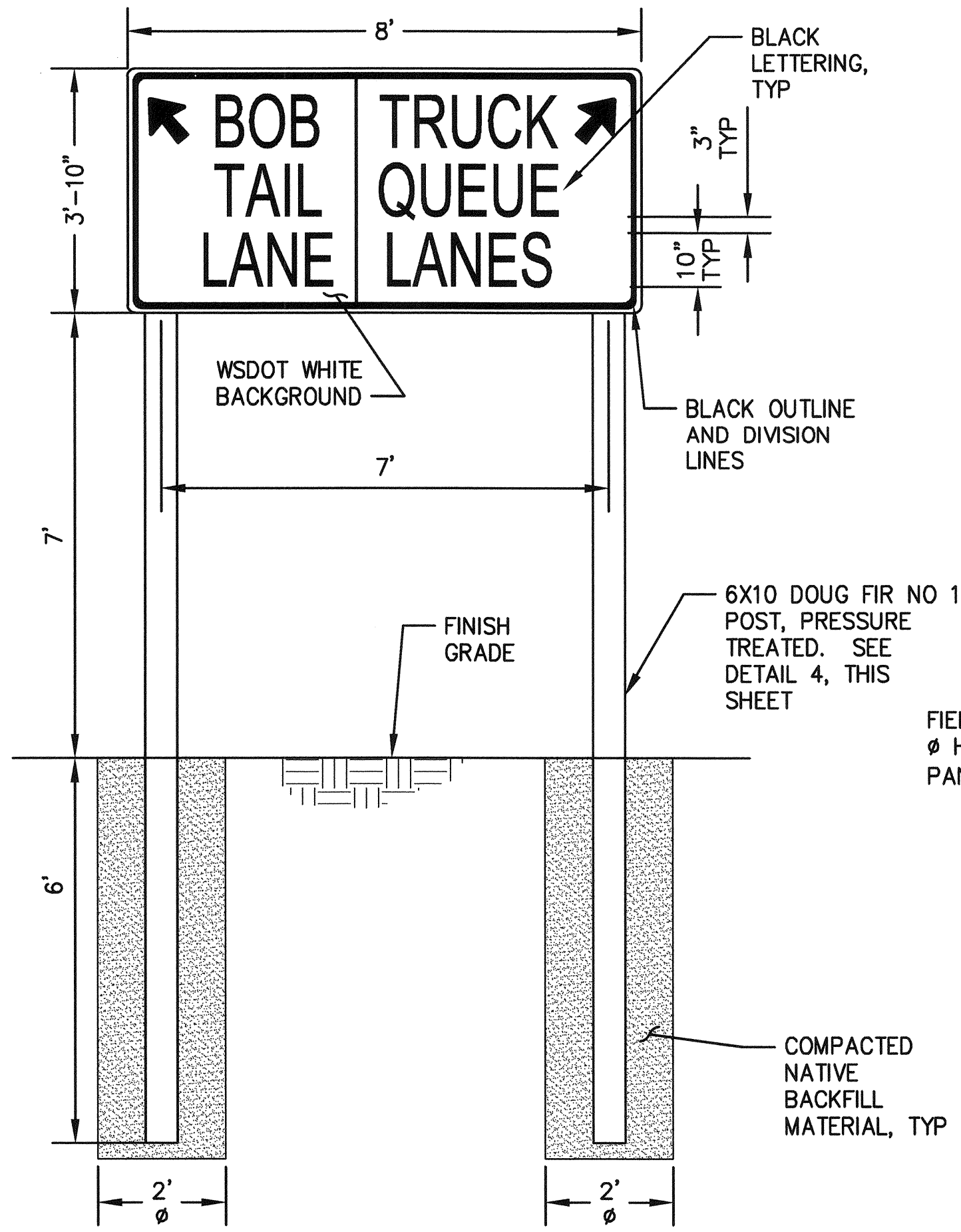
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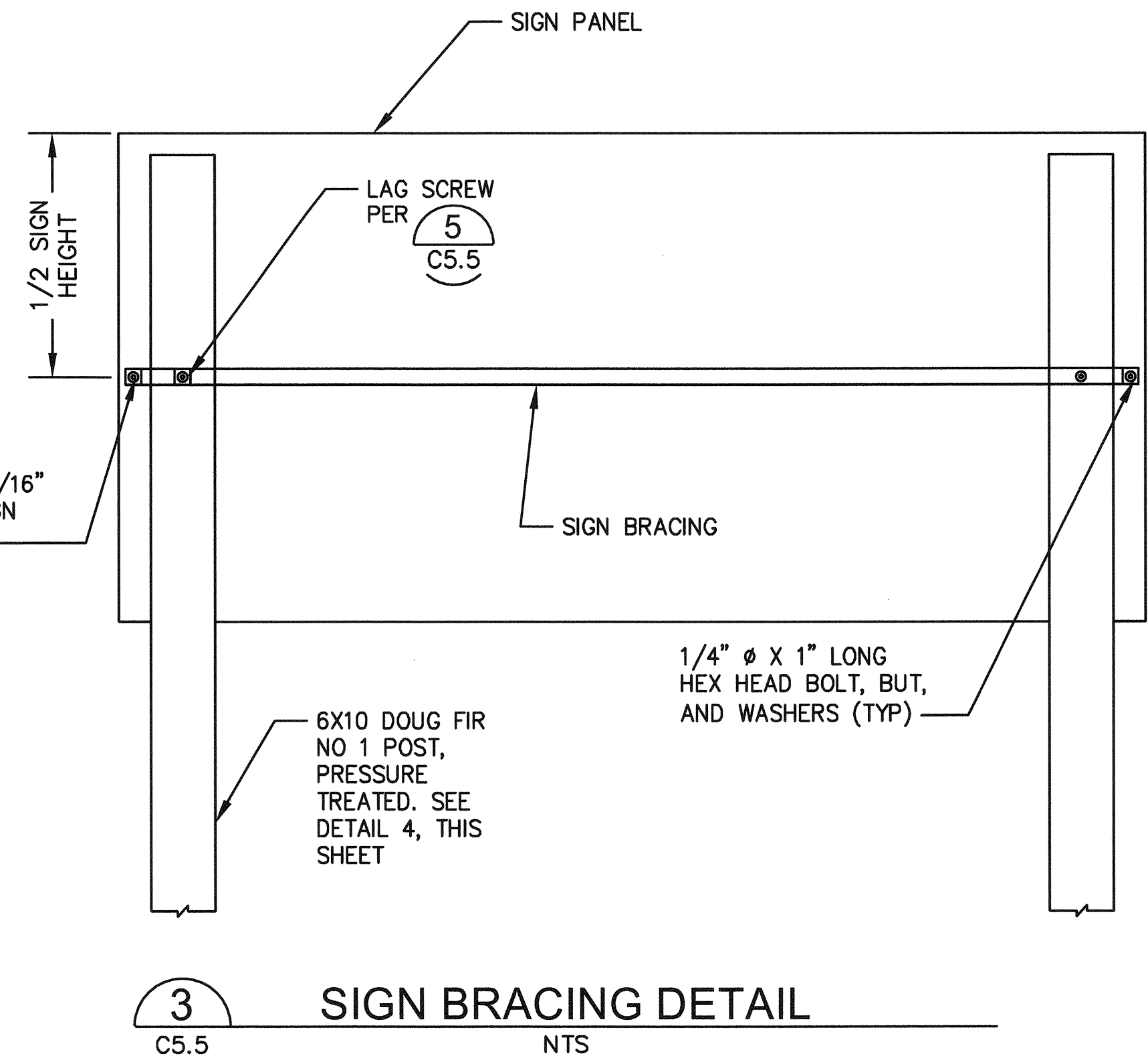


1 TRUCK, BOBTAIL AND TURN AROUND SIGN DETAIL
C1.1 NTS

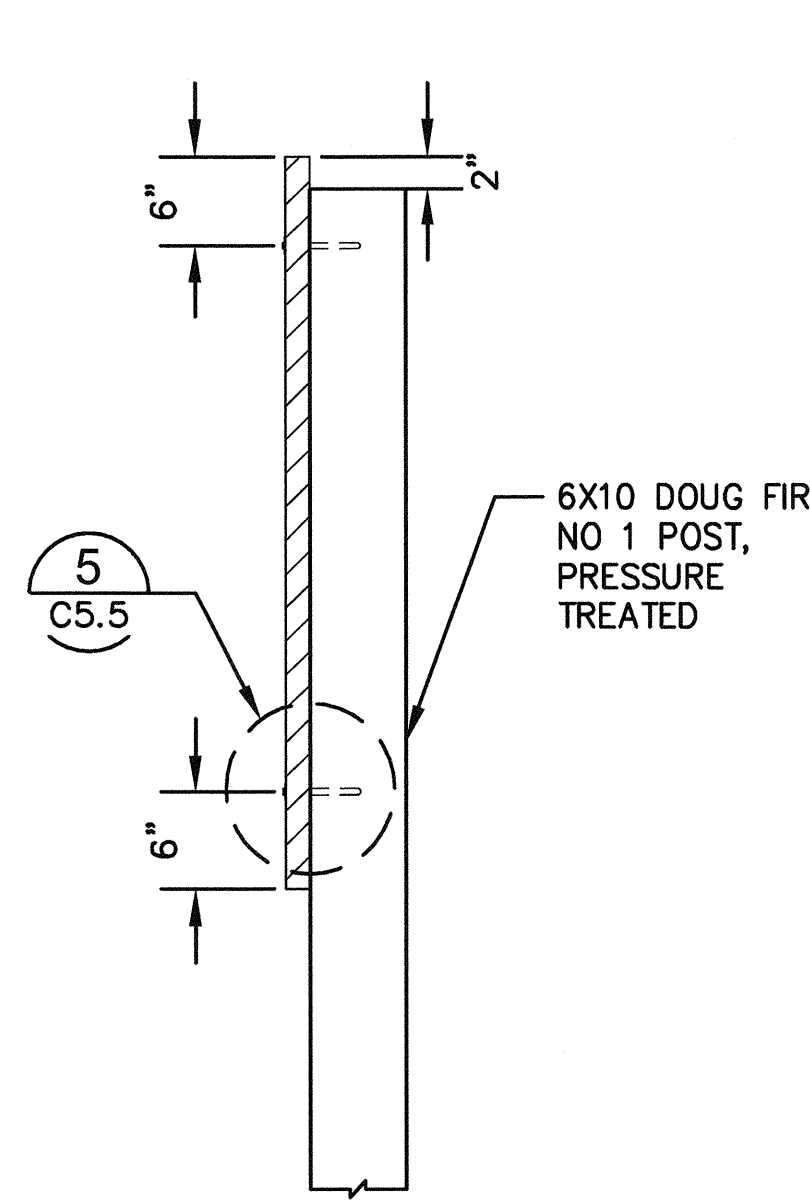


2 TRUCK QUEUE AND BOBTAIL SIGN DETAIL
C1.1 NTS

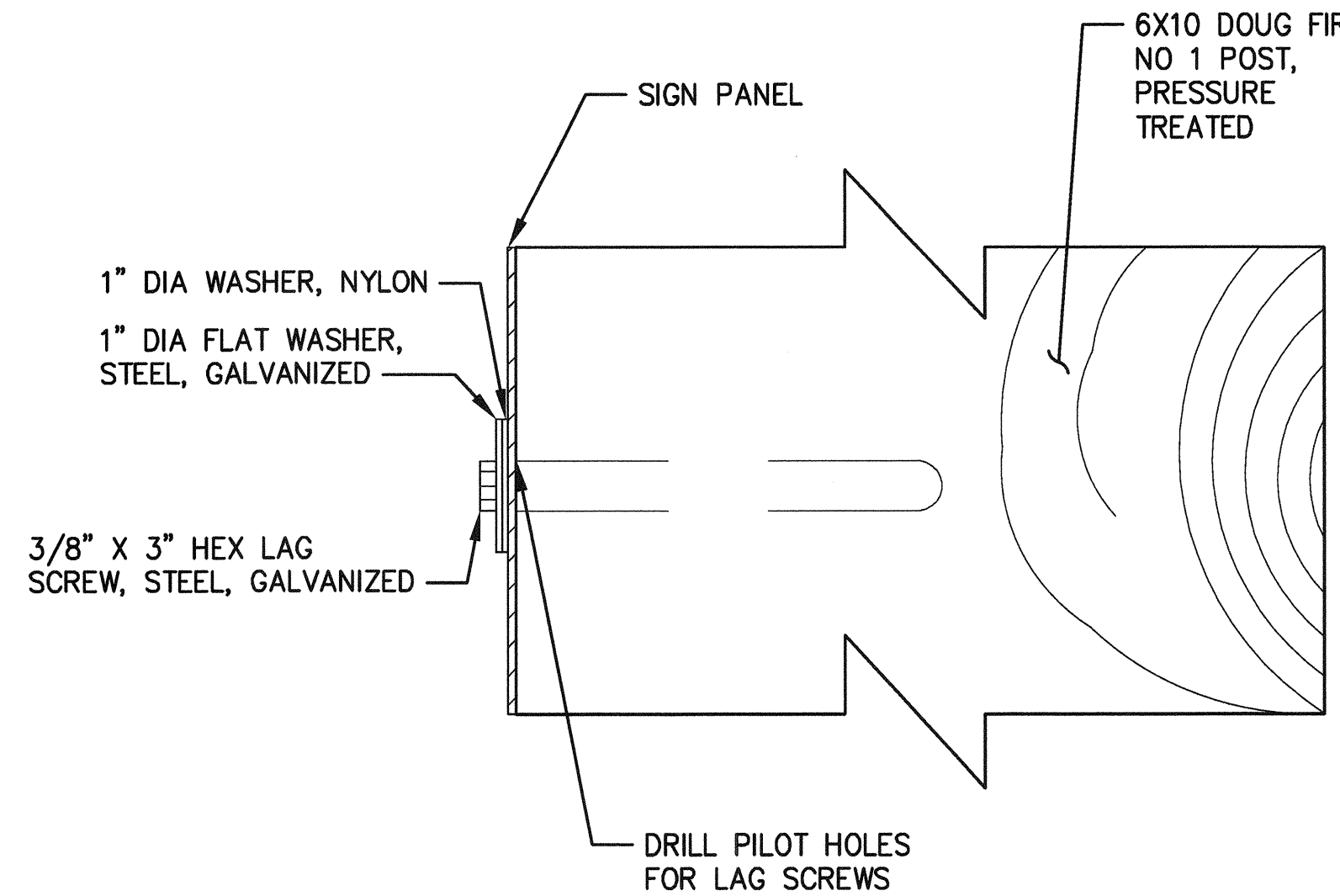
NOTES:
1. PROVIDE SIGN BRACING PER DETAIL 3 THIS SHEET.



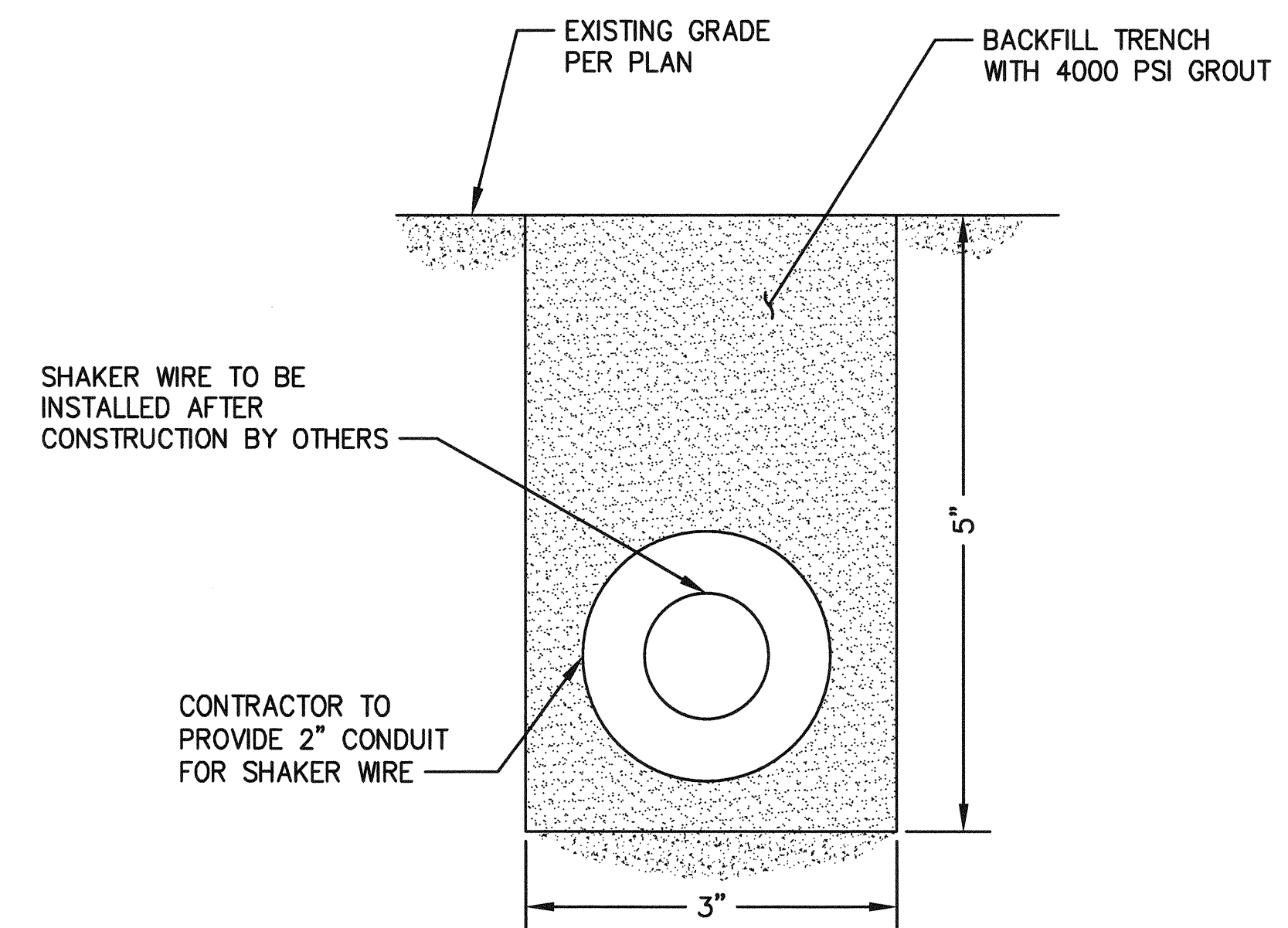
3 SIGN BRACING DETAIL
C5.5 NTS



4 SIGN POST DETAIL
C5.5 NTS



5 SCREW DETAIL
C5.5 NTS



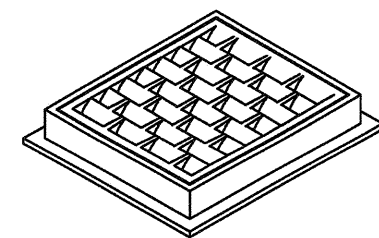
6 SHAKER WIRE CONDUIT INGROUND TRENCH DETAIL
C5.8, C11.1 NTS

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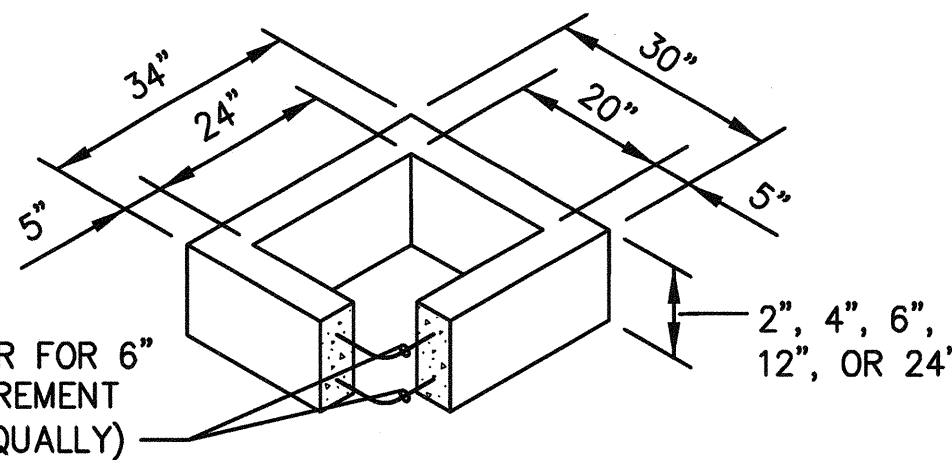
PCT TRUCK STAGING

DETAILS

6556	TOWNSHIP: 20N	SECTION: 01
SHEET 26 OF 53	RANGE: 03E	DATE: 05/20/2016
CONT/CONS: 070287	PARCEL: 5000350150	DRAWING SCALE: AS NOTED
M. ID:	TACOMA, WA 98401-1837	
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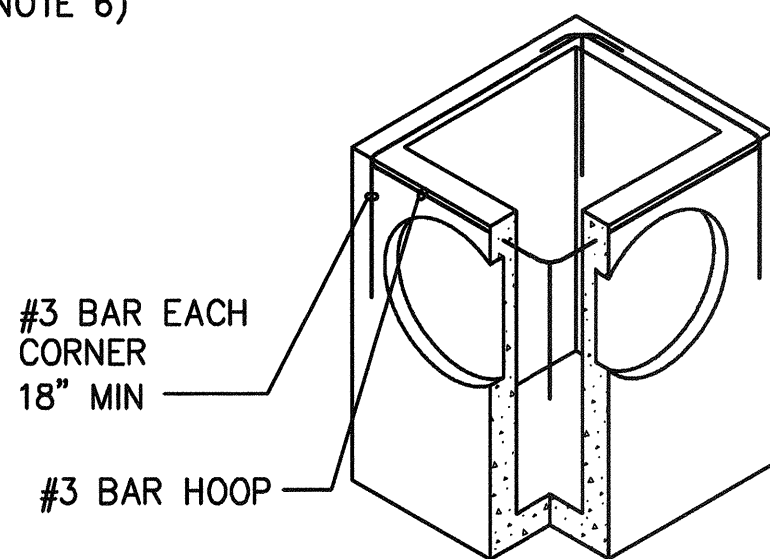
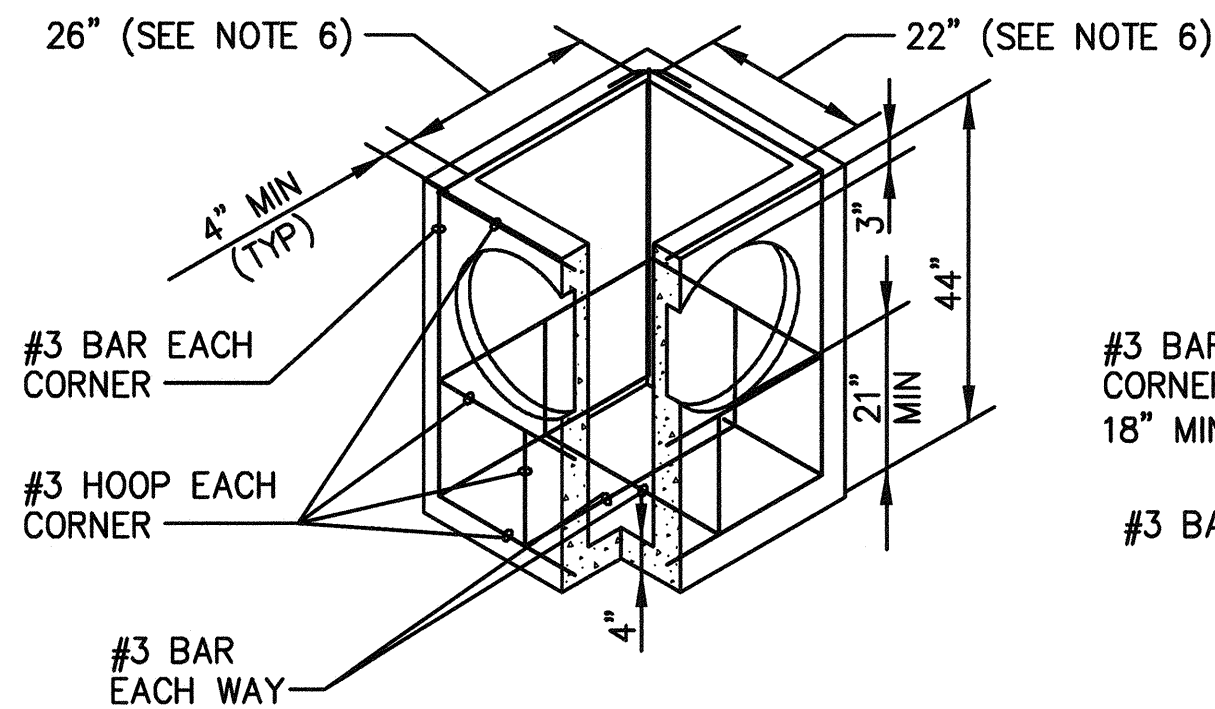


FRAME AND VANED GRATE



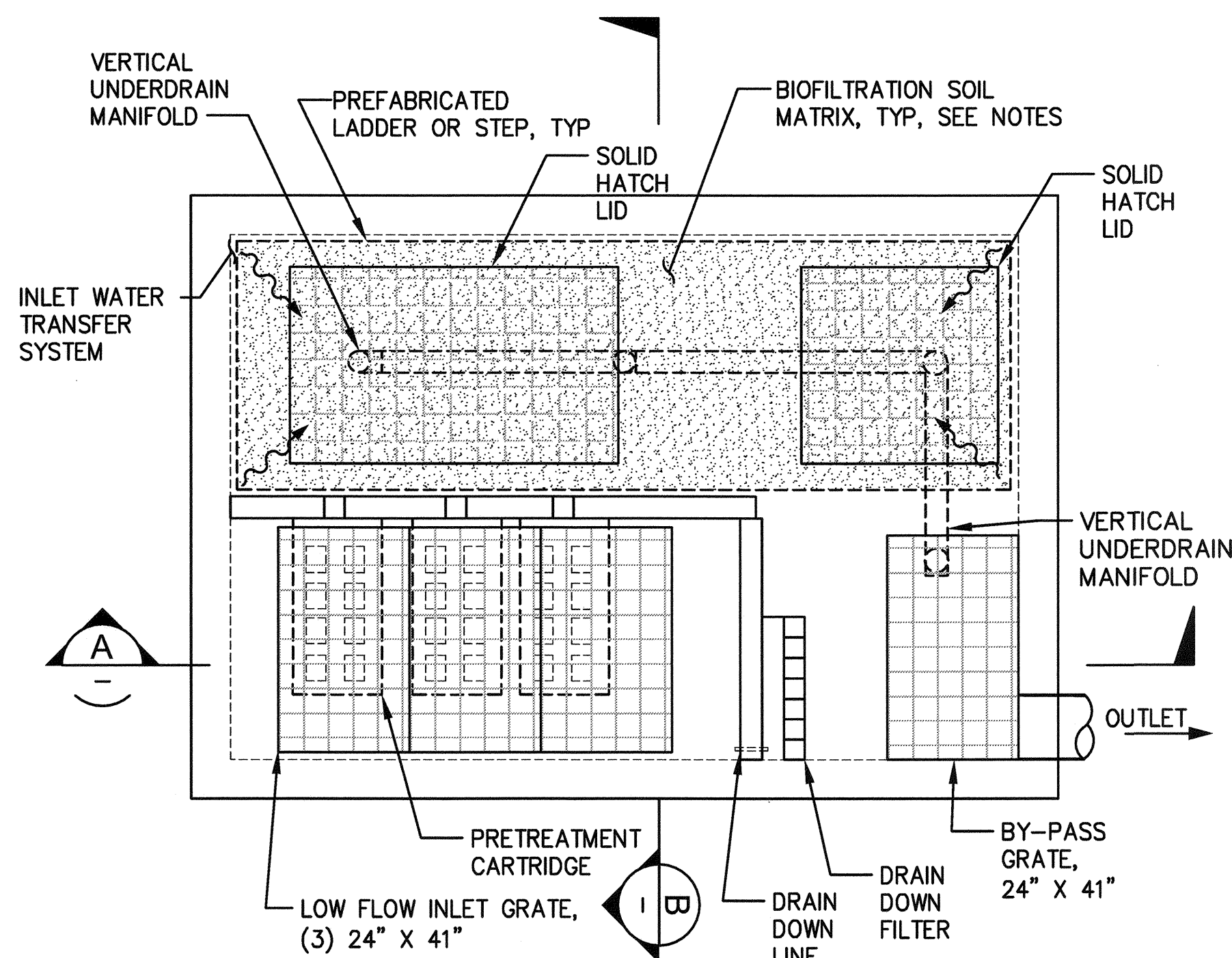
RECTANGULAR ADJUSTMENT SECTION

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP * (STD.SPEC.9-05.20)	12"
SOLID WALL PVC (STD.SPEC.9-05.12(1))	15"
PROFILE WALL PVC (STD.SPEC.9-05.12(2))	15"



(SEE NOTE 1)

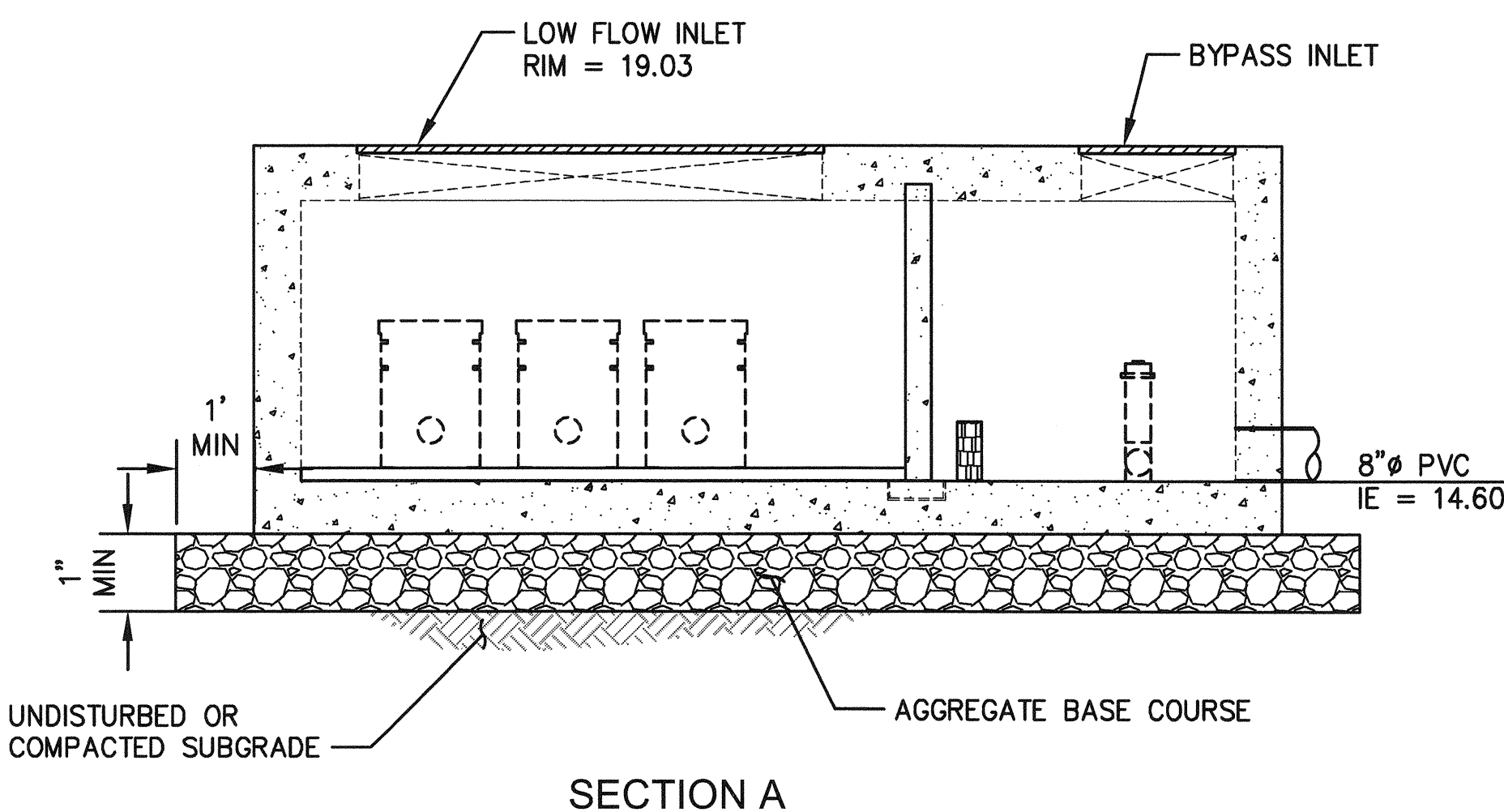
1 CATCH BASIN TYPE 1 DETAIL
C3.1 SCALE: NTS



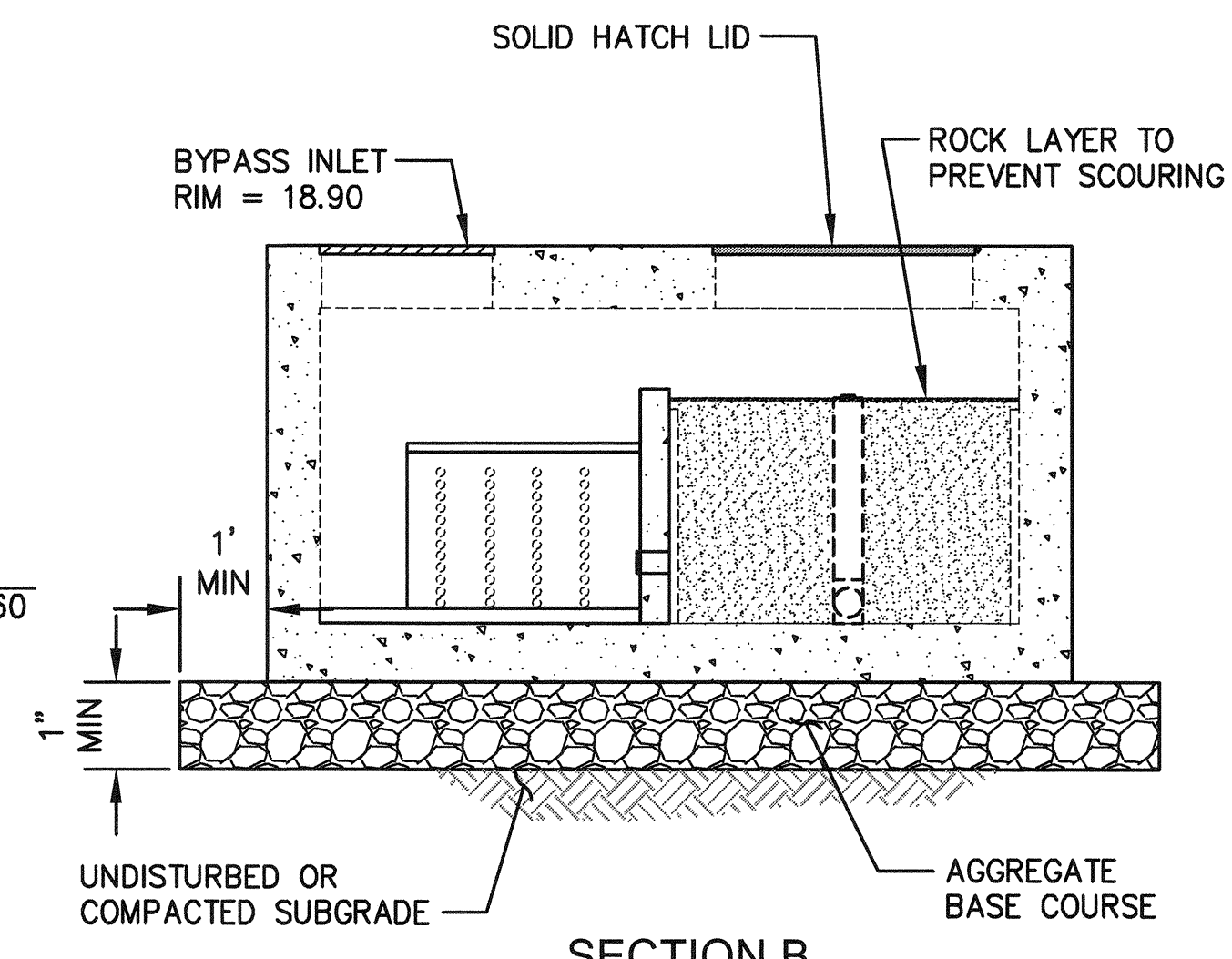
2 MODULAR WETLAND #1
MWS 8-12-G-UG DETAIL
C3.1 SCALE: NTS

NOTES:

- AS ACCEPTABLE ALTERNATIVES TO THE REBAR SHOWN IN THE PRECAST BASE SECTION, FIBERS (PLACED ACCORDING TO THE STANDARD SPECIFICATIONS), OR WIRE MESH HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT SHALL BE USED WITH THE MINIMUM REQUIRED REBAR SHOWN IN THE ALTERNATIVE PRECAST BASE SECTION. WIRE MESH SHALL NOT BE PLACED IN THE KNOCKOUTS.
- THE KNOCKOUT DIAMETER SHALL NOT BE GREATER THAN 20". KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM TO 2.5" MAXIMUM. PROVIDE A 1.5" MINIMUM GAP BETWEEN THE KNOCKOUT WALL AND THE OUTSIDE OF THE PIPE. AFTER THE PIPE IS INSTALLED, FILL THE GAP WITH JOINT MORTAR IN ACCORDANCE WITH STANDARD SPECIFICATION 9-04.3.
- THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5'.
- THE FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE DOWN, OR INTEGRALLY CAST INTO THE ADJUSTMENT SECTION WITH FLANGE UP.
- THE PRECAST BASE SECTION MAY HAVE A ROUNDED FLOOR, AND THE WALLS MAY BE SLOPED AT A RATE OF 1:24 OR STEEPER.
- THE OPENING SHALL BE MEASURED AT THE TOP OF THE PRECAST BASE SECTION.
- ALL PICKUP HOLES SHALL BE GROUTED FULL AFTER THE BASIN HAS BEEN PLACED.
- CATCH BASIN SHALL BE DESIGNED PER LOADING CRITERIA ON SHEET G3.
- STORM DRAIN MANHOLES, VAULTS, AND CATCH BASINS SHALL BE DESIGNED AND CONSTRUCTED WITH FLAT SLAB TOPS AND SHALL BE CONFIGURED TO ACCEPT FUTURE ADDITION OF A MINIMUM 4" RISER SECTION BETWEEN LID OR GRATE OR TOP OF STRUCTURE.



SECTION A



SECTION B

NOTES:

- INSTALL UNIT ON LEVEL BED OF AGGREGATE BASE COURSE OF AT LEAST 1' IN DEPTH ON COMPACTED SUBGRADE WITH 1' MINIMUM OVER EXCAVATION AROUND ENTIRE UNIT.
- MODULAR WETLAND STRUCTURE SHALL BE CONTRACTOR DESIGNED TO THE INTERIOR DIMENSIONS SHOWN.
- ALL INTERNAL COMPONENTS INCLUDING PRETREATMENT CARTRIDGE, WATER TRANSFER SYSTEM, AND BIOFILTRATION CHAMBER SORPTIVE MEDIA SHALL BE DESIGNED BY THE MANUFACTURER PER THE TREATMENT REQUIREMENTS INDICATED.
- ALL LIDS, GRATES, HATCHES AND VAULTS SHALL BE DESIGNED PER LOADING CRITERIA ON SHEET G3.
- STORM DRAIN MANHOLES, VAULTS, AND CATCH BASINS SHALL BE DESIGNED AND CONSTRUCTED WITH FLAT SLAB TOPS AND SHALL BE CONFIGURED TO ACCEPT FUTURE ADDITION OF A MINIMUM 4" RISER SECTION BETWEEN LID OR GRATE OR TOP OF STRUCTURE.

MODULAR WETLANDS TREATMENT REQUIREMENTS	
FLOW RATES	
PEAK TREATMENT FLOW RATE = 0.33 CFS OR 151 GPM	
BIOFILTRATION CHAMBER SURFACE AREA CALCS	
WETLAND MEDIA LOADING RATE 151 GPM / 150.96 SF = 1.00 GPM/SF	
PRETREATMENT FILTER SURFACE AREA CALCS	
PRETREATMENT FILTER LOADING RATE 151 GPM / 75 SF = 2.1 GPM/SF	

6556
C5.6
SHEET 27 OF 53
CONT./CONS: 070287
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PCT TRUCK STAGING
PCT
STORMWATER DETAILS

SECTION: 01
RANGE: 03E
VERT: 1
DRAWING SCALE: AS NOTED

TOWNSHIP: 20N
DATE-HRZ:
PARCEL: 5000350150

SITE PLAN STATION AND OFFSET CONTROL TABLE

POINT	STATION	OFFSET	DESCRIPTION
(A)	20+33.67	240.18' LT	GATE POST
(B)	20+16.83	240.18' LT	GATE POST
(C)	19+86.97	240.18' LT	GATE POST
(D)	18+56.66	142.06' LT	FENCE LINE
(E)	18+68.19	127.06' LT	BEGIN 2 LANES
(F)	19+05.10	94.06' LT	NO TRAVEL AREA
(G)	19+30.03	20.00' LT	BOB TAIL LANE
(H)	19+30.03	0'	QUEUE LANES
(I)	19+30.03	214.00' RT	QUEUE LANES
(J)	19+49.16	268.00' RT	FENCE LINE
(K)	20+33.03	183.00' RT	FENCE LINE
(L)	19+56.46	214.00' RT	TRAFFIC STRIPE
(M)	20+30.18	139.71' RT	TRAFFIC STRIPE
(N)	13+35.10	142.06' LT	FENCE LINE
(O)	11+73.78	63.01' RT	FENCE LINE
(P)	13+70.03	0'	QUEUE LANES
(Q)	13+70.12	214.00' RT	QUEUE LANES
(R)	13+04.25	268.00' RT	FENCE LINE
(S)	12+75.72	252.09' RT	FENCE LINE
(T)	13+49.98	20.00' LT	BOB TAIL LANE
(U)	13+40.92	114.08' LT	TRUCK LANE
(V)	13+40.92	0'	TRUCK LANE
(W)	13+37.84	110.00' RT	TRUCK LANE
(X)	13+01.68	214.00' RT	TRUCK LANE
(Y)	19+95.03	357.06' LT	STRIPE LINE
(Z)	20+33.03	165.52' RT	FENCE POST
(BC)	19+89.96	256.85' LT	PAVEMENT LINE
(BD)	19+23.54	160.64' LT	GATE POST
(BE)	19+01.80	150.48' LT	GATE POST
(BF)	13+38.72	127.13' LT	STRIPE LINE
(BG)	19+95.03	280.77' LT	STRIPE LINE
(BH)	18+56.70	140.07' LT	STRIPE LINE
(BI)	18+95.10	114.07' LT	STRIPE LINE
(BJ)	12+54.47	268.46' RT	FENCE LINE
(BK)	12+12.19	200.75' RT	FENCE LINE
(BL)	10+29.35	178.14' LT	FENCE LINE
(BM)	10+05.75	250.49' LT	FENCE LINE
(BN)	10+00.77	281.40' LT	FENCE POST
(BO)	20+33.68	208.17' LT	GATE POST

PAVING STATION AND OFFSET CONTROL TABLE

POINT	STATION	OFFSET	ELEVATION	DESCRIPTION
(AA)	20+34.60	245.43' LT	20.47	PAVEMENT EDGE
(BB)	19+87.42	245.43' LT	20.92	PAVEMENT EDGE
(CC)	20+33.59	355.72' LT	19.33	PAVEMENT EDGE
(DD)	20+34.00	183.08' RT	21.36	PAVEMENT EDGE
(EE)	19+49.12	269.00' RT	21.92	PAVEMENT EDGE
(FF)	19+94.88	357.07' LT	19.43	PAVEMENT EDGE
(GG)	19+91.07	357.20' LT	19.43	PAVEMENT EDGE
(HH)	19+89.96	256.85' LT	20.25	PAVEMENT EDGE
(II)	19+94.32	343.74' LT	19.43	PAVEMENT EDGE
(JJ)	18+56.64	143.05' LT	20.30	PAVEMENT EDGE
(KK)	20+31.51	258.45' LT	20.33	PAVEMENT EDGE
(LL)	12+74.73	252.39' RT	20.41	PAVEMENT EDGE
(MM)	13+04.24	269.00' RT	20.55	PAVEMENT EDGE
(NN)	20+34.60	251.92' LT	20.33	PAVEMENT EDGE
(OO)	11+72.81	63.35' RT	20.86	PAVEMENT EDGE
(PP)	13+35.10	143.05' LT	20.68	PAVEMENT EDGE

UTILITY STATION AND OFFSET CONTROL TABLE

POINT	STATION	OFFSET	DESCRIPTION
(AB)	18+32.30	145.40' LT	CB #1
(AC)	18+41.62	29.37' LT	CB #2
(AD)	16+86.38	145.40' LT	CB #3
(AE)	13+02.36	143.69' LT	CB #4
(AF)	11+82.98	58.88' LT	CB #5
(AG)	18+64.03	37.45' LT	MWS #1
(AH)	19+19.62	67.00' LT	LIGHT POLE

6556

C5.7

SHEET 28 OF 53

CONT/CONS: 070287

M. ID:

PHASE: 100%

PCT TRUCK STAGING

PCT

STATION AND OFFSET CONTROL

TOWNSHIP: 20N

DAT-HRZ:

PARCEL: 9000350150

DRAWING SCALE: AS NOTED

APPROVED: *[Signature]* SWK 05/20/2016

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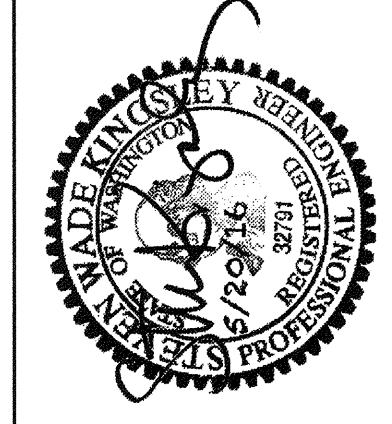
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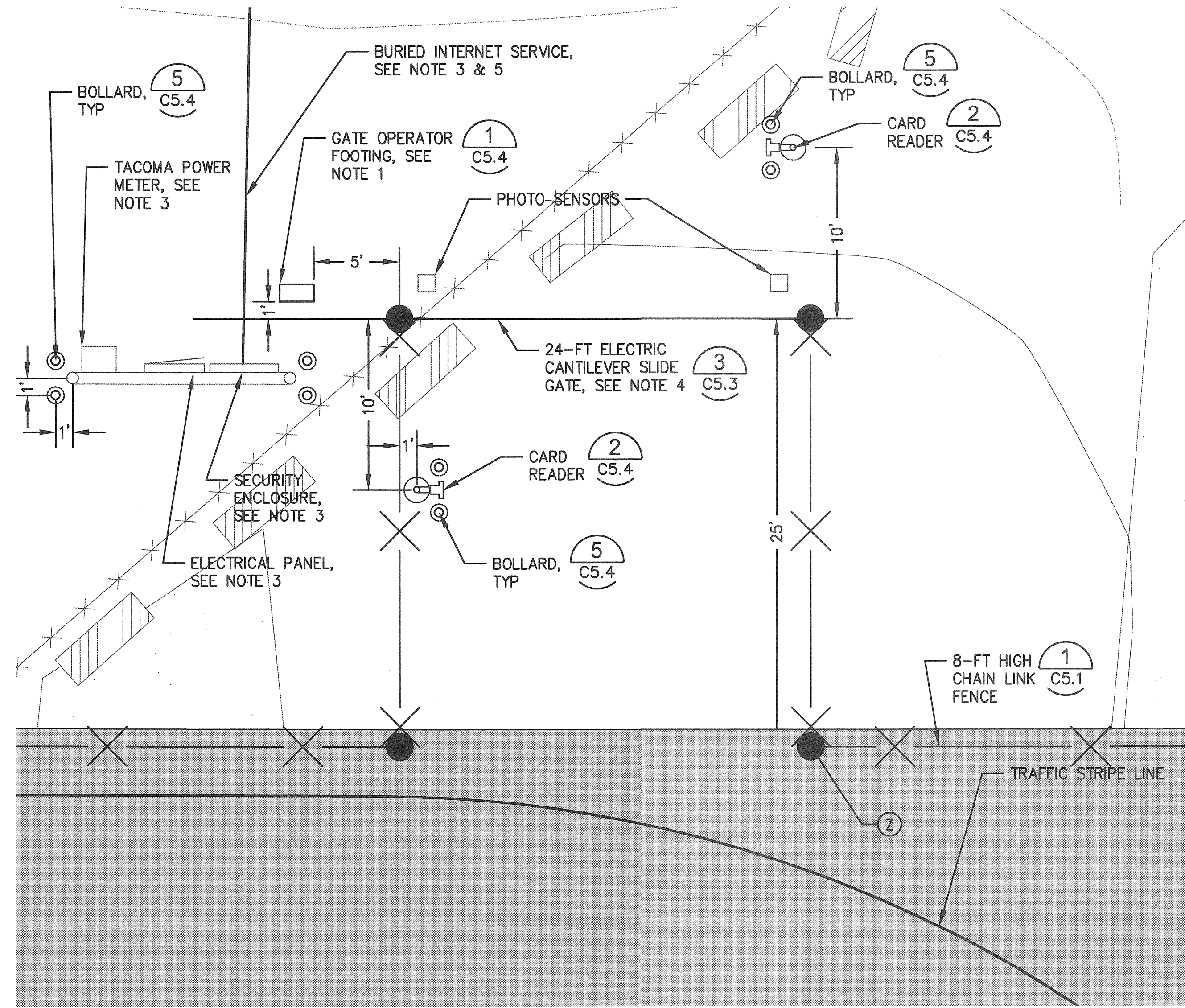
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PO BOX 387 TACOMA, WA 98401

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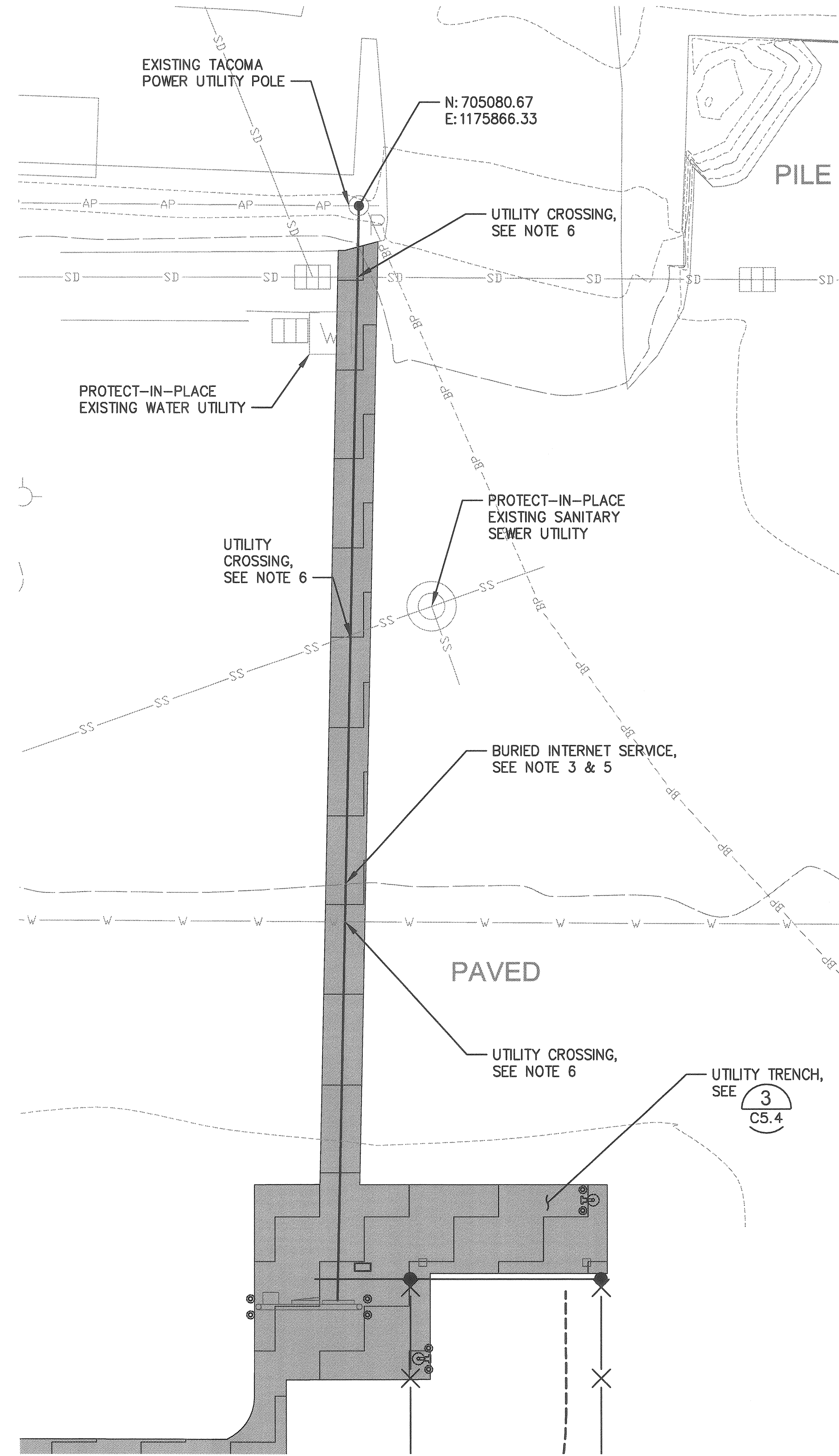
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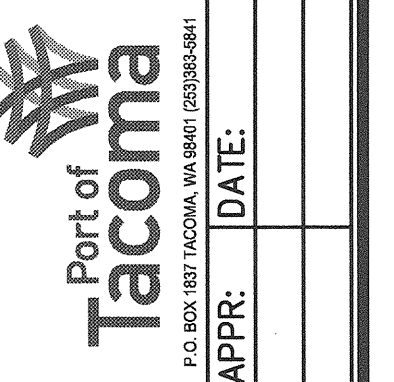
1
C1.1
SOUTH AUTO ENTRY GATE DETAIL
SCALE: 1" = 5'

NOTES:

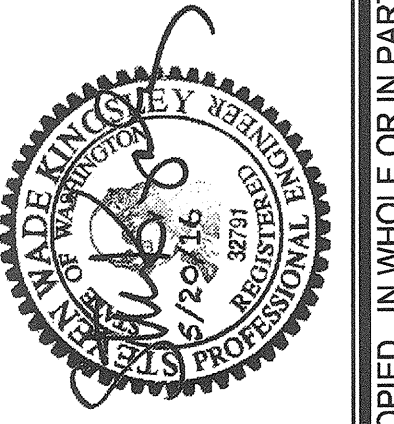
1. LOCATION OF GATE OPERATOR IS APPROXIMATE. CONTRACTOR TO COORDINATE WITH GATE OPERATOR MANUFACTURER FOR PLACEMENT OF GATE OPERATOR.
2. FOR FENCE POST CONTROL POINTS, SEE SHEETS C1.1 AND C5.7.
3. FOR ELECTRICAL, SEE ELECTRICAL SHEETS E1.0 THRU E3.0.
4. CONTRACTOR TO PROVIDE CONDUIT PER DETAIL 6 ON SHEET C5.5 FOR ENTIRE LENGTH OF GATE FOR INSTALLATION OF SHAKER WIRE BY OTHERS.
5. CONTRACTOR SHALL PROVIDE 2" CONDUIT FOR INSTALLATION OF INTERNET. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT WITH CLICK! CABLE TV, SEE SPECIFICATIONS FOR CONTACT INFORMATION.
6. EXISTING BURIED UTILITY, CONTRACTOR TO LOCATE AND PROTECT-IN-PLACE.



2
C3.1
BURIED INTERNET SERVICE DETAIL
SCALE: 1" = 10'



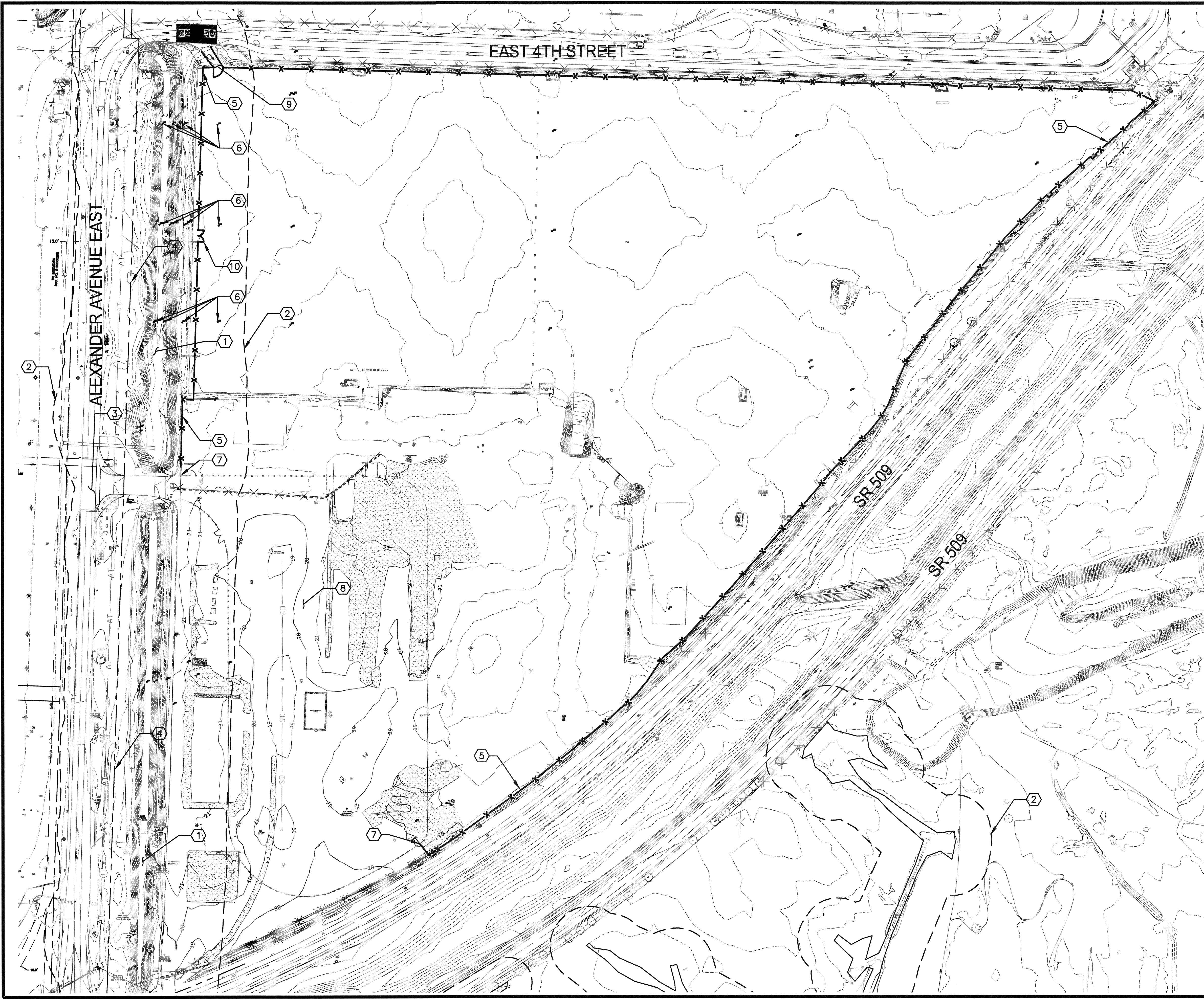
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APPROVED:	SWK	05/20/2016
<i>Wade Kinoshita</i>	CHECKED BY	DATE
DIRECTOR	RCC	05/20/2016
6/2/16	PROJ. ENGR	DATE
PRINTED BY: rchandler	May 20, 2016	
PORT ADDRESS: ONE SITCUM PLAZA		
TACOMA, WA 98401-1837		

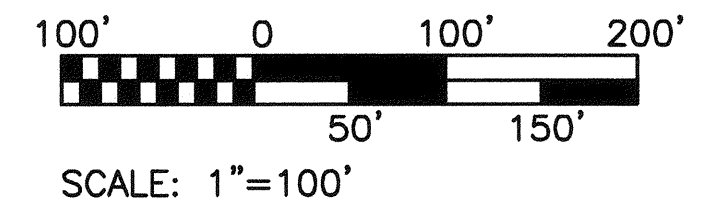
6556 C5.8 SHEET 29 OF 53	PCT TRUCK STAGING	
	PCT ENLARGED SITE PLAN	
	TOWNSHIP: 20N	SECTION: 01
	DATE-HRZ:	VERT:
CONTR/CONS: 070287	RANGE: 03E	DRAWING SCALE: AS NOTED
M. ID:	PARCEL: 5000350150	TACOMA, WA 98401-1837
PHASE: 100%		

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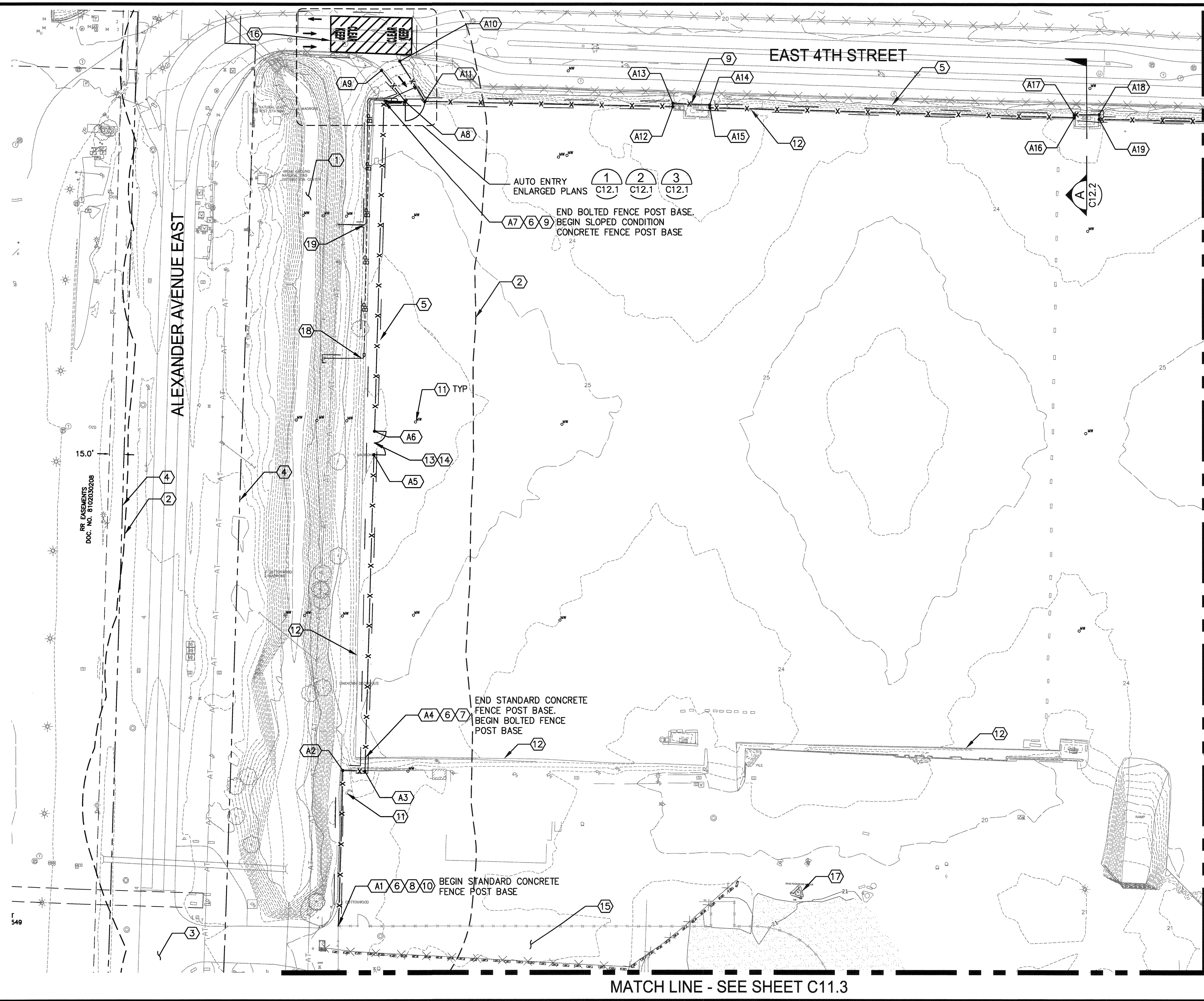


KEYNOTES:

- ① WAPATO CREEK
- ② 150' STREAM BUFFER
- ③ FOR WORK WITHIN CITY ROW, SEE WORK ORDER PERMIT NUMBER 60000041488
- ④ CITY ROW LINE
- ⑤ 8-FT CHAIN LINK FENCE
- ⑥ EXISTING MONITORING WELL
- ⑦ CONNECT TO PCT TRUCK STAGING FENCE, SEE SHEETS C1.1 THRU C1.2
- ⑧ SEE SHEETS C1.1 THRU C1.2 FOR PCT WORK WITHIN THIS AREA
- ⑨ AUTO ENTRY
- ⑩ 24-FT MANUAL SWING GATE



6556 C10.0 SHEET 30 OF 53	PCT TRUCK STAGING PORTAC OVERALL SITE PLAN		SWK 05/20/2016	CHECKED BY DATE
	TOWNSHIP: 20N DAT-HRZ:	RANGE: 03E VERT:	SECTION: 01 DRAWING SCALE: AS NOTED	RGC 05/20/2016
M. ID: 070287	PARCEL: 5000350150	PRINTED BY: rchandler May 20, 2016 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	APPROVED: 	
PHASE: 100%	THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION		MADE KING COUNTY REGISTERED PROFESSIONAL ENGINEER No. 32751 	
		2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162	MARK:	REVISION:
		P.O. BOX 1087 TACOMA, WA 98401-0108	BY:	DATE:



KEYNOTES:

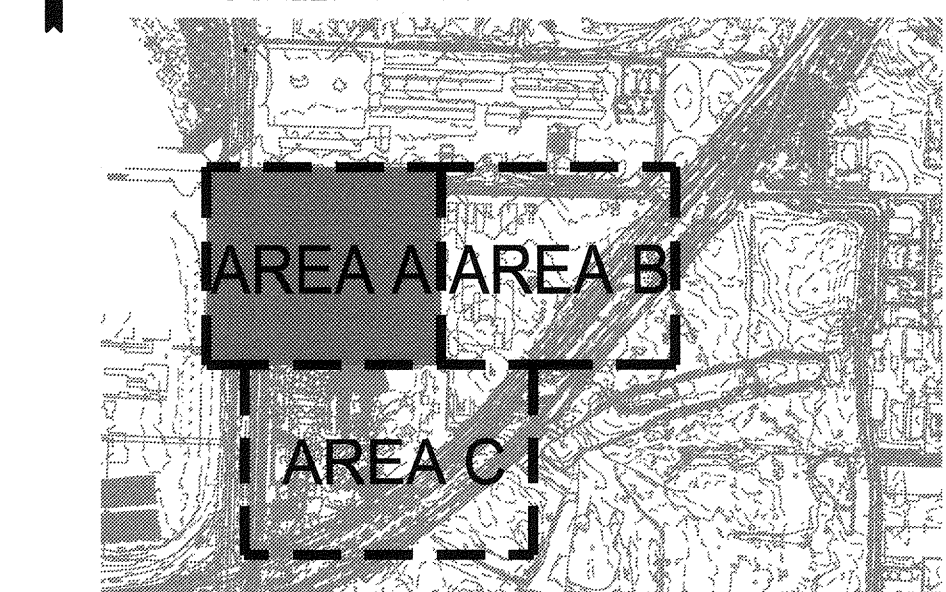
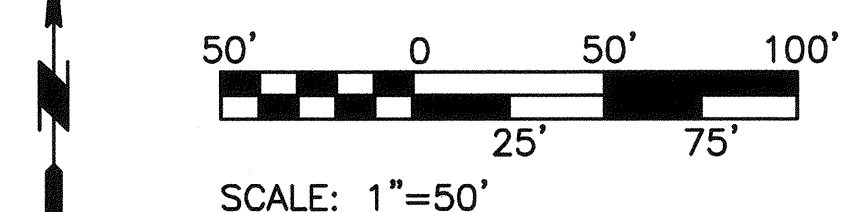
- ① WAPATO CREEK
- ② 150' STREAM BUFFER
- ③ FOR WORK WITHIN CITY ROW, SEE WORK ORDER PERMIT NUMBER 60000041488
- ④ CITY ROW LINE
- ⑤ LIMITS OF WORK
- ⑥ 8 FT CHAIN LINK FENCE (1 C5.1)
- ⑦ BOLTED FENCE POST BASE (3 C12.3)
- ⑧ STANDARD CONCRETE FENCE POST BASE (1 C5.1)
- ⑨ SLOPED CONDITION CONCRETE FENCE POST BASE, LOCATED 1' TYP OUTSIDE THE EDGE OF THE PORTAC CAP (1 C5.1)
- ⑩ CONNECT TO PCT TRUCK STAGING FENCE, SEE SHEETS C1.1 THRU C1.2
- ⑪ PROTECT-IN-PLACE EXISTING MONITORING WELL
- ⑫ EDGE OF PORTAC CAP
- ⑬ 24' MANUAL DOUBLE SWING GATE (4 C12.3)
- ⑭ 2" CONDUIT INSTALLED BELOW GRADE FOR FUTURE SHAKER WIRE (6 C5.5)
- ⑮ PCT TRUCK STAGING, THIS AREA, SEE SHEETS C1.1 THRU C1.2
- ⑯ KEEP CLEAR SYMBOL (5 C12.3)
- ⑰ PROTECT IN PLACE EXISTING NAVIGATION MARKER
- ⑱ BURIED ELECTRICAL SERVICE, SEE NOTE 2
- ⑲ BURIED INTERNET SERVICE, SEE NOTE 2

LEGEND:

- X—X— CHAIN LINK FENCE (1 C5.1)
- - - LIMITS OF WORK
- XX CONTROL POINT

NOTES:

1. FOR HORIZONTAL CONTROL TABLE SEE SHEET C11.4
2. FOR ELECTRICAL WORK, SEE SHEETS E1.0 THRU E3.0.
3. CONTRACTOR SHALL RESTORE DISTURBED VEGETATION WITHIN STREAM BUFFER AT A MINIMUM WITH NATIVE GRASSES.



MATCH LINE - SEE SHEET C11.2

MATCH LINE - SEE SHEET C11.3

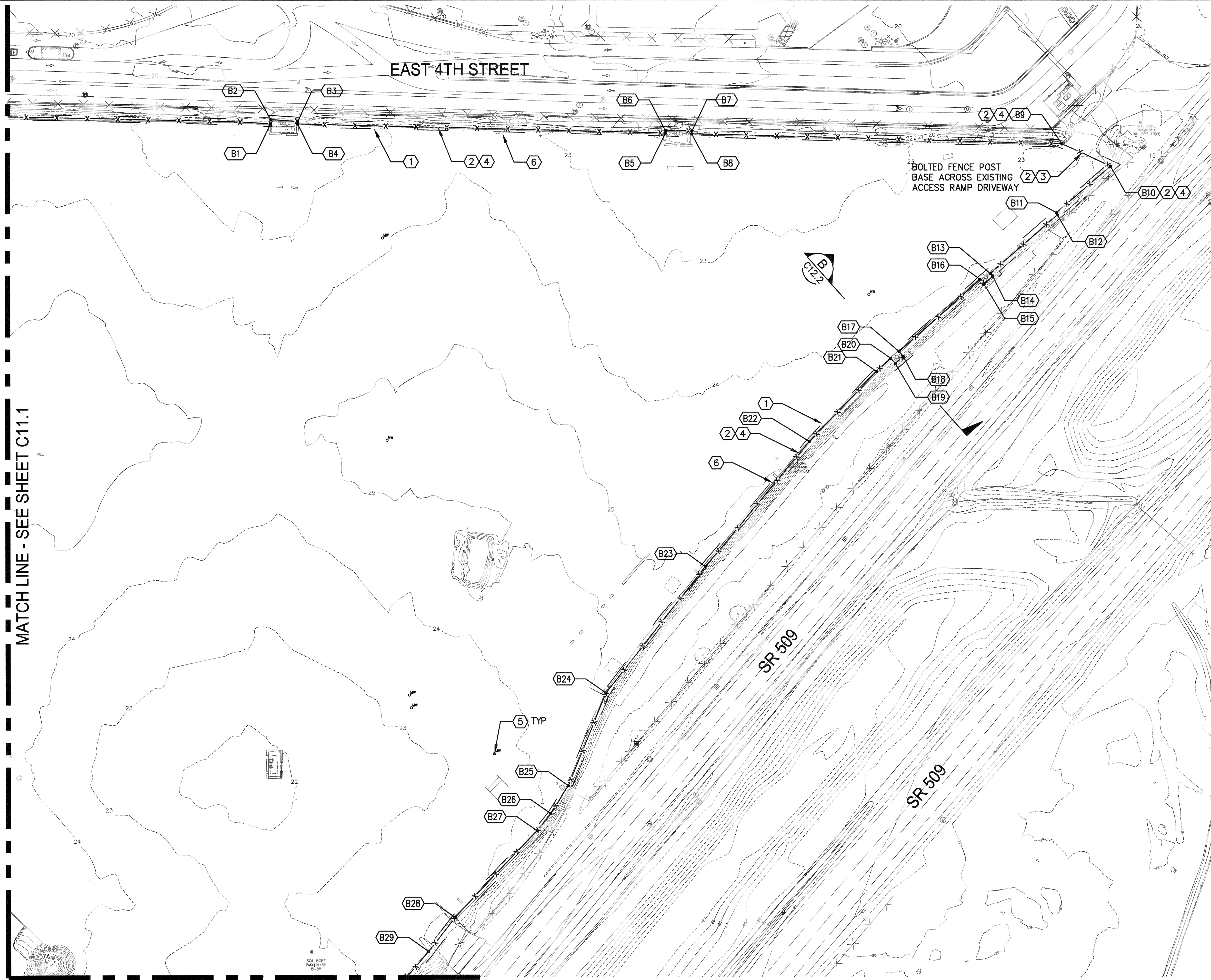
	2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 386-0150 Fax (253) 396-0162		P.O. BOX 987 TACOMA, WA 98401-0098
	MARK:	REVISION:	BY:
APPROVED: <i>[Signature]</i>	SWK 05/20/2016	CHECKED BY:	DATE:
DIRECTOR: <i>[Signature]</i>	RGC 05/20/2016	PROJ. ENGR:	DATE:
PRINTED BY: rcharndler	May 20, 2016	PORT ADDRESS: ONE SITCUM PLAZA	TACOMA, WA 98401-1837
PCT TRUCK STAGING PORTAC SITE PLAN - AREA A	TOWNSHIP: 20N	RANGE: 03E	SECTION: 01
SHEET 31 OF 53	DAT-HRZ:	VERT:	DRAWING SCALE: AS NOTED
M. ID:	PARCEL: 5000350150	PHASE: 100%	THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

BINDING EDGE

PORT OF TACOMA FILE: N:\Civil\114114080 Port of Tacoma Planning On-Call\114080.16 PCT Gate Queue\Part 3 - KPFF Design\3.13 Drawings\091606-C111-C114 (Portac Fence Site Plans)

MATCH LINE - SEE SHEET C11.1

MATCH LINE - SEE SHEET C11.3



KEYNOTES:

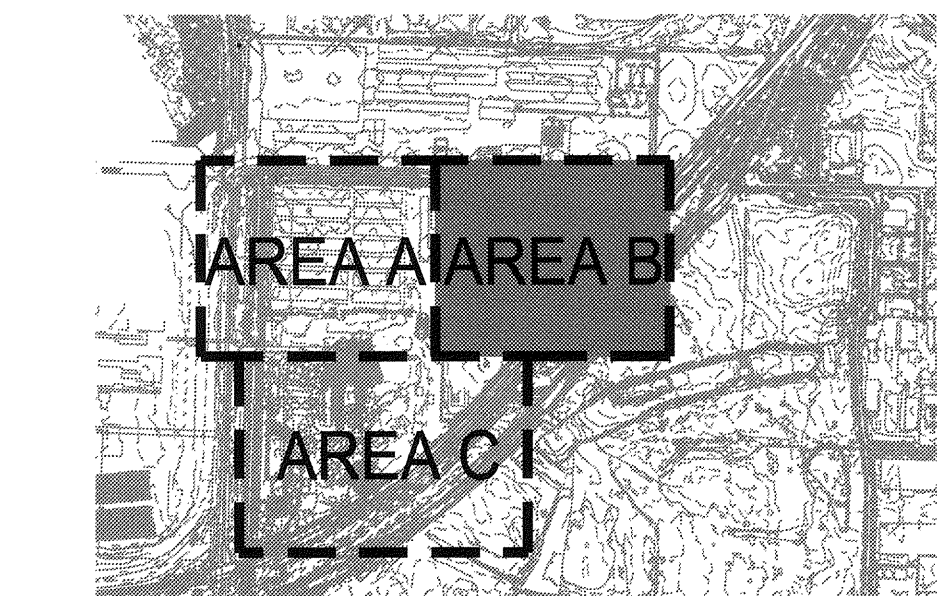
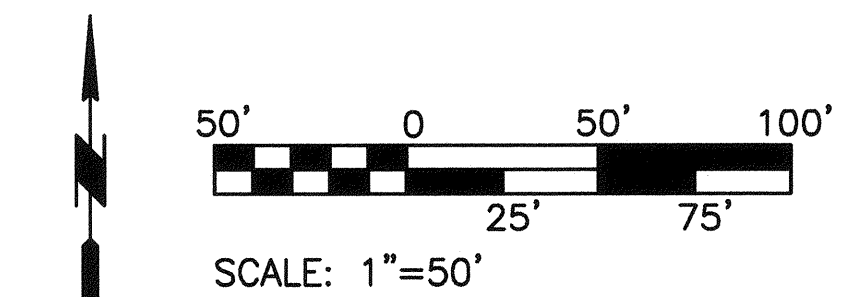
- ① LIMITS OF WORK
- ② 8-FT CHAIN LINK FENCE (1 C5.1)
- ③ BOLTED FENCE POST BASE (3 C12.3)
- ④ SLOPED CONDITION CONCRETE FENCE POST BASE, 1' TYP OUTSIDE THE EDGE OF THE PORTAC CAP (1 C5.1)
- ⑤ PROTECT-IN-PLACE EXISTING MONITORING WELL
- ⑥ EDGE OF PORTAC CAP

LEGEND:

- x—x— CHAIN LINK FENCE (1 C5.1)
- - - LIMITS OF WORK
- ⓧ CONTROL POINT

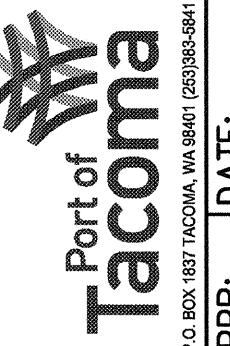
NOTES:

- 1. FOR HORIZONTAL CONTROL TABLE SEE SHEET C11.4

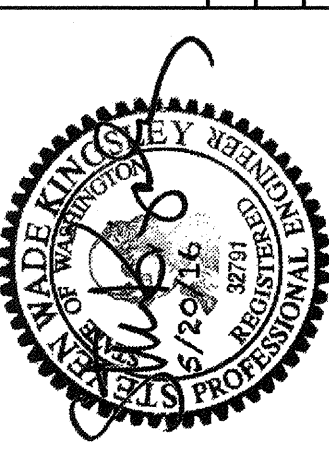


KEY PLAN

NTS



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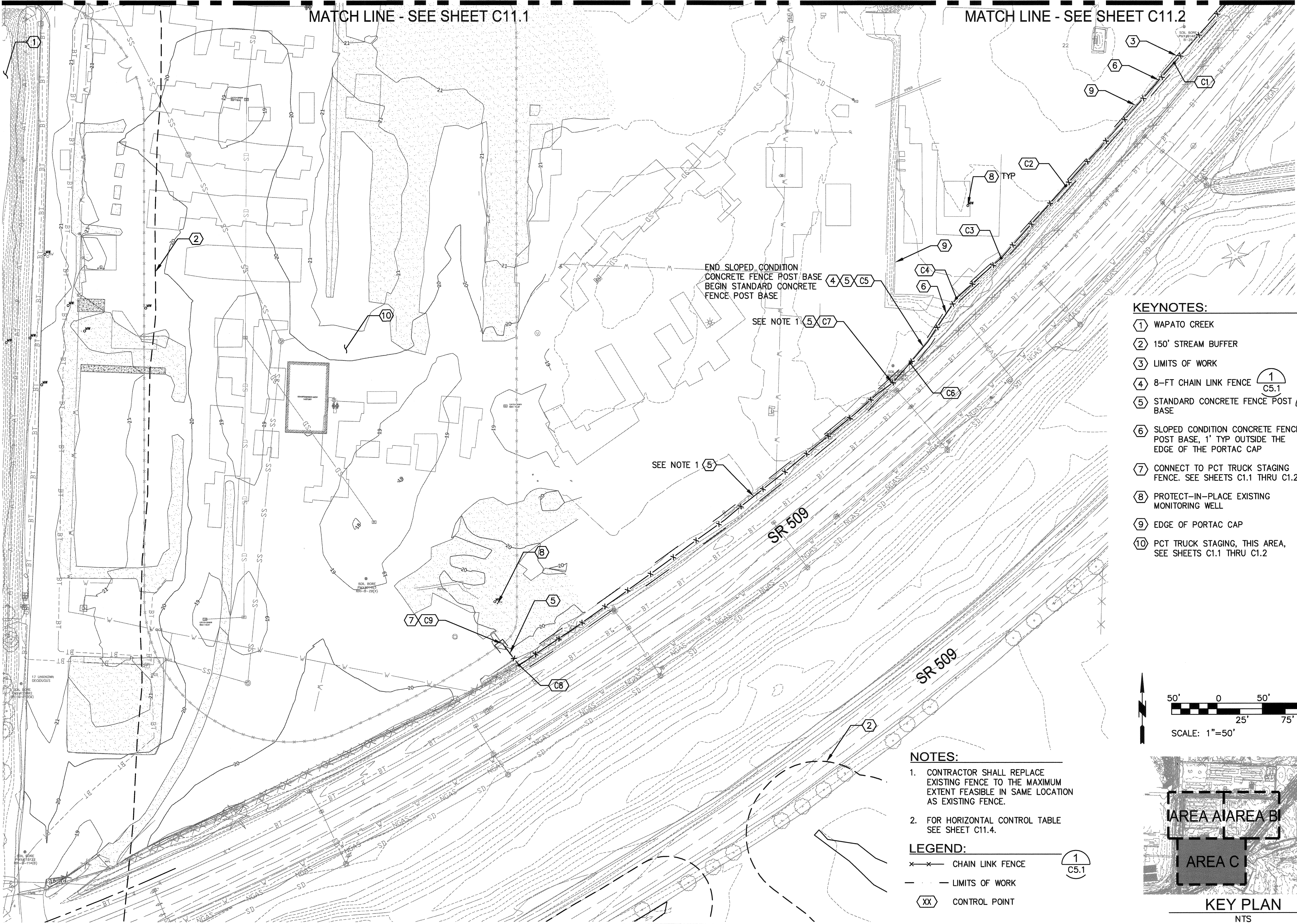
APPROVED:	SWK	05/20/2016
<i>Wade Kinsey</i>	CHECKED BY	DATE
DIRECTOR	RGC	05/20/2016
6/2/16	PROJ. ENGR	DATE
PRINTED BY: rchandler	May 20, 2016	
PORT ADDRESS: ONE SITCUM PLAZA		
TACOMA, WA 98401-1837		

PCT TRUCK STAGING
PORTAC
SITE PLAN - AREA B

6556	TOWNSHIP: 20N	RANGE: 03E	SECTION: 01
C11.2	DATE-HRZ:	VERT:	DRAWING SCALE: AS NOTED
SHEET 32 OF 53	PARCEL: 5000350150	AS NOTED	
CON/CONS: 070287	THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION		
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PHASE: 100%			

MATCH LINE - SEE SHEET C11.1

MATCH LINE - SEE SHEET C11.2



KEYNOTES:

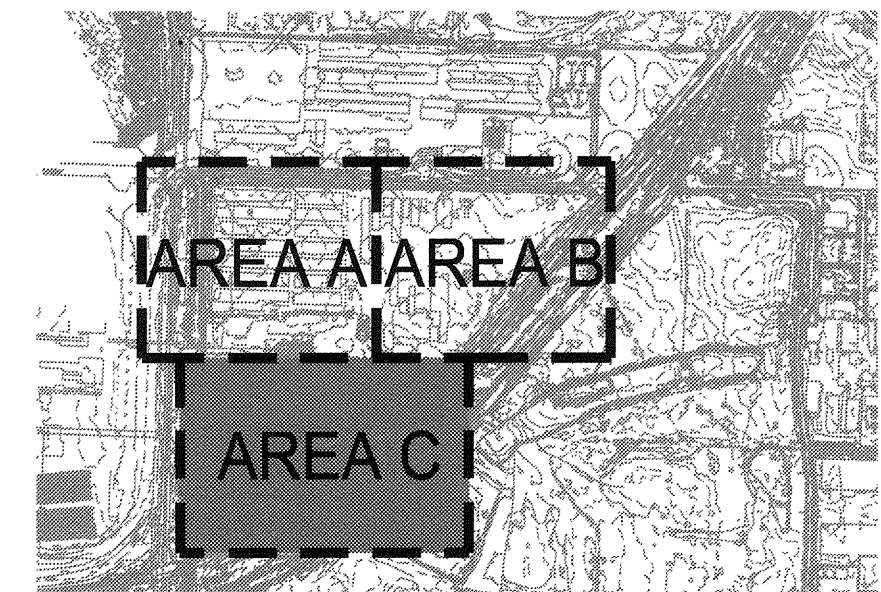
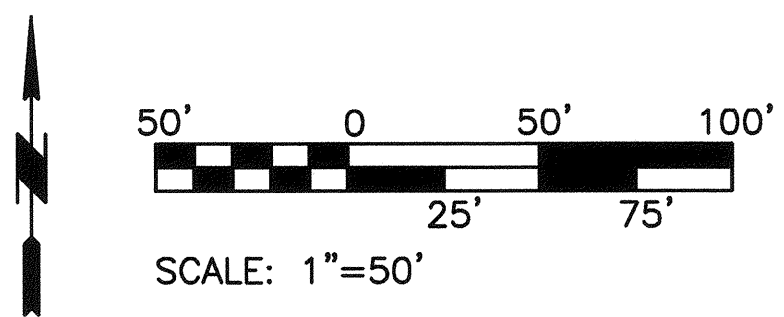
- ① WAPATO CREEK
- ② 150' STREAM BUFFER
- ③ LIMITS OF WORK
- ④ 8-FT CHAIN LINK FENCE (1 C5.1)
- ⑤ STANDARD CONCRETE FENCE POST BASE (1 C5.1)
- ⑥ SLOPED CONDITION CONCRETE FENCE POST BASE, 1' TYP OUTSIDE THE EDGE OF THE PORTAC CAP (1 C5.1)
- ⑦ CONNECT TO PCT TRUCK STAGING FENCE. SEE SHEETS C1.1 THRU C1.2
- ⑧ PROTECT-IN-PLACE EXISTING MONITORING WELL
- ⑨ EDGE OF PORTAC CAP
- ⑩ PCT TRUCK STAGING, THIS AREA, SEE SHEETS C1.1 THRU C1.2

NOTES:

1. CONTRACTOR SHALL REPLACE EXISTING FENCE TO THE MAXIMUM EXTENT FEASIBLE IN SAME LOCATION AS EXISTING FENCE.
2. FOR HORIZONTAL CONTROL TABLE SEE SHEET C11.4.

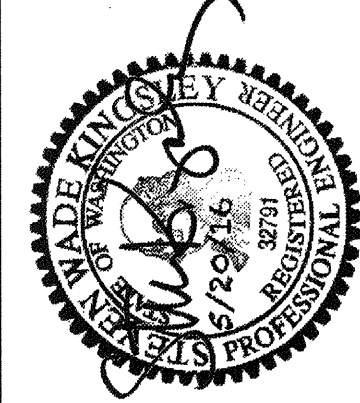
LEGEND:

- x—x— CHAIN LINK FENCE (1 C5.1)
- - - LIMITS OF WORK
- ⓧ CONTROL POINT



KEY PLAN
NTS

 Port of Tacoma 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (252) 536-0150 Fax (252) 536-0162 P.O. BOX 887 TACOMA, WA 98401	APPROVED: <i>[Signature]</i> DIRECTOR DATE: 6/2/16	SWK 05/20/2016 CHECKED BY: [Blank] DATE: 05/20/2016
	PRINTED BY: rchandler DATE: May 20, 2016 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	RGC PROJ. ENGR DATE
6556 C11.3 SHEET 33 OF 53	TOWNSHIP: 20N DAT-HRZ: [Blank] PARCEL: 5000350150	RANGE: 03E SECTION: 01 DRAWING SCALE: AS NOTED
PHASE: 100%		



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SHEET C11.1 (AREA A) HORIZONTAL CONTROL

POINT	NORTHING	EASTING
A1	704920.96	1175490.96
A2	705079.53	1175495.70
A3	705078.54	1175518.44
A4	705092.91	1175518.86
A5	705404.13	1175527.85
A6	705428.12	1175528.56
A7	705767.15	1175538.38
A8	705766.44	1175560.16
A9	705798.67	1175535.80
A10	705808.13	1175554.51
A11	705766.48	1175580.16
A12	705761.37	1175834.13
A13	705764.74	1175834.22
A14	705763.22	1175872.03
A15	705760.18	1175871.96
A16	705750.40	1176245.47
A17	705753.32	1176245.46
A18	705753.63	1176271.21
A19	705748.84	1176271.12

SHEET C11.2 (AREA B) HORIZONTAL CONTROL

POINT	NORTHING	EASTING
B1	705739.42	1176646.02
B2	705743.75	1176646.20
B3	705742.04	1176673.52
B4	705739.34	1176673.39
B5	705729.79	1177046.87
B6	705732.31	1177046.99
B7	705731.91	1177073.75
B8	705728.85	1177073.62
B9	705719.07	1177449.80
B10	705696.38	1177498.96
B11	705648.89	1177444.15
B12	705646.57	1177445.14
B13	705587.00	1177376.58
B14	705584.41	1177379.07
B15	705576.26	1177370.37
B16	705580.98	1177366.28
B17	705507.67	1177283.82
B18	705502.31	1177288.26
B19	705495.39	1177280.00
B20	705500.59	1177275.34
B21	705487.14	1177260.83
B22	705415.76	1177192.69
B23	705288.38	1177086.67
B24	705159.18	1176985.73
B25	705065.81	1176947.38
B26	705037.28	1176929.59
B27	705019.73	1176915.67
B28	704931.28	1176832.22
B29	704897.26	1176805.35

SHEET C11.3 (AREA C) HORIZONTAL CONTROL

POINT	NORTHING	EASTING
C1	704804.49	117624.23
C2	704668.93	1176604.28
C3	704588.93	1176533.15
C4	704544.67	1176483.87
C5	704491.21	1176447.41
C6	704473.32	1176432.51
C7	704451.69	1176413.08
C8	704139.39	1176001.56
C9	74162.93	1175983.22

6556

C11.4

SHEET 34 OF 53

CONT/CONS: 070287

M. ID:

PHASE: 100%

**PCT TRUCK STAGING
PORTAC
HORIZONTAL CONTROL**

TOWNSHIP: 20N

RANGE: 03E

SECTION: 01

DATE-HRZ:

PARCEL: 5000350150

DRAWING SCALE: AS NOTED

APPROVED: *[Signature]*

SWK 05/20/2016

CHECKED BY: *[Signature]*

DATE 05/20/2016

RCC 05/20/2016

DATE 05/20/2016

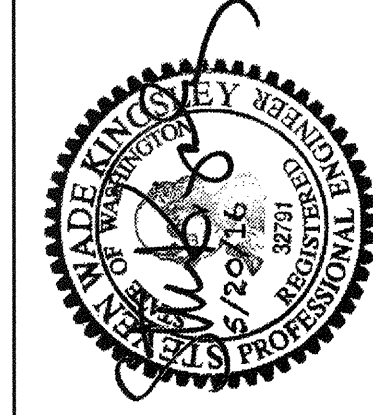
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May 20, 2016

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837



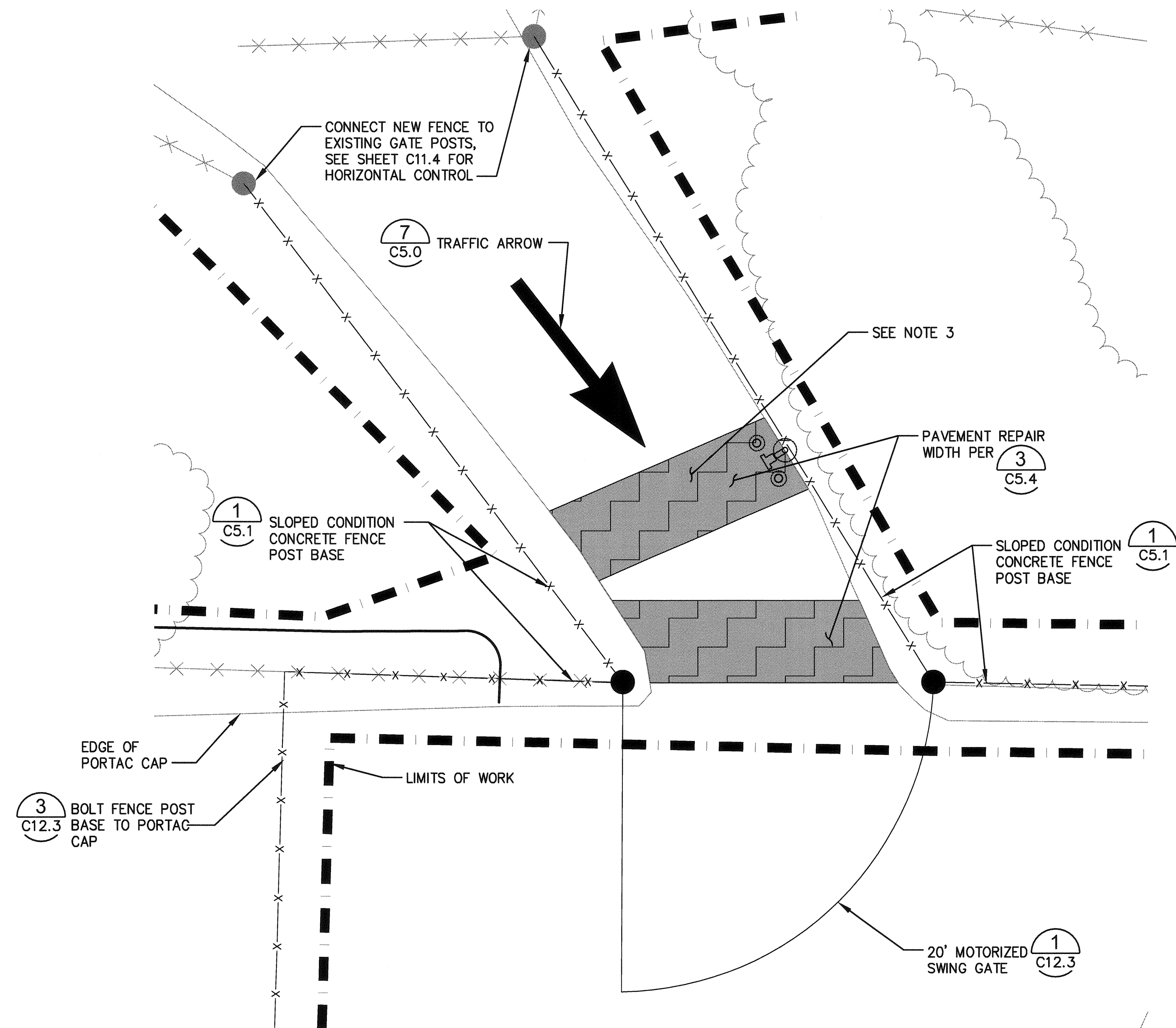
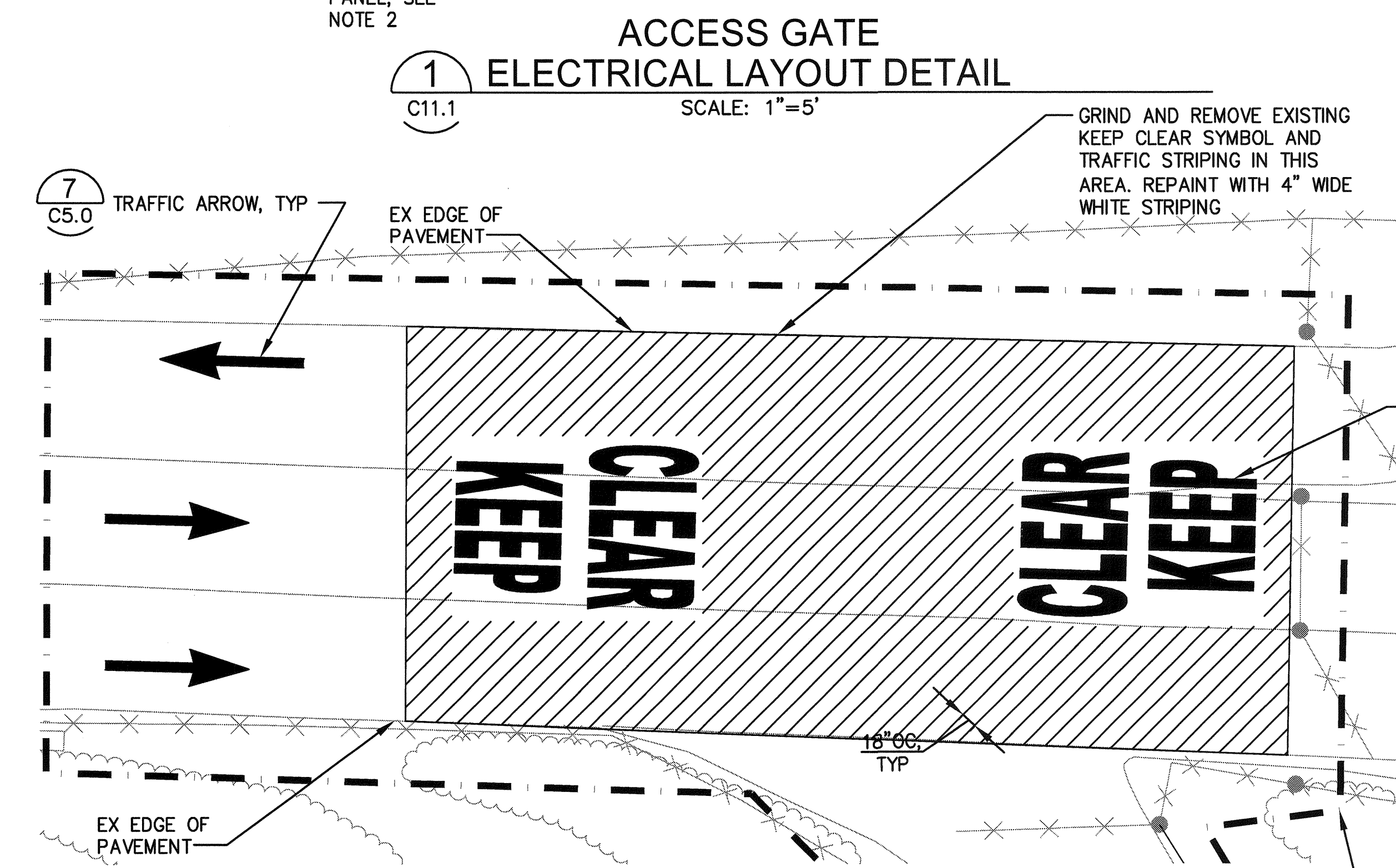
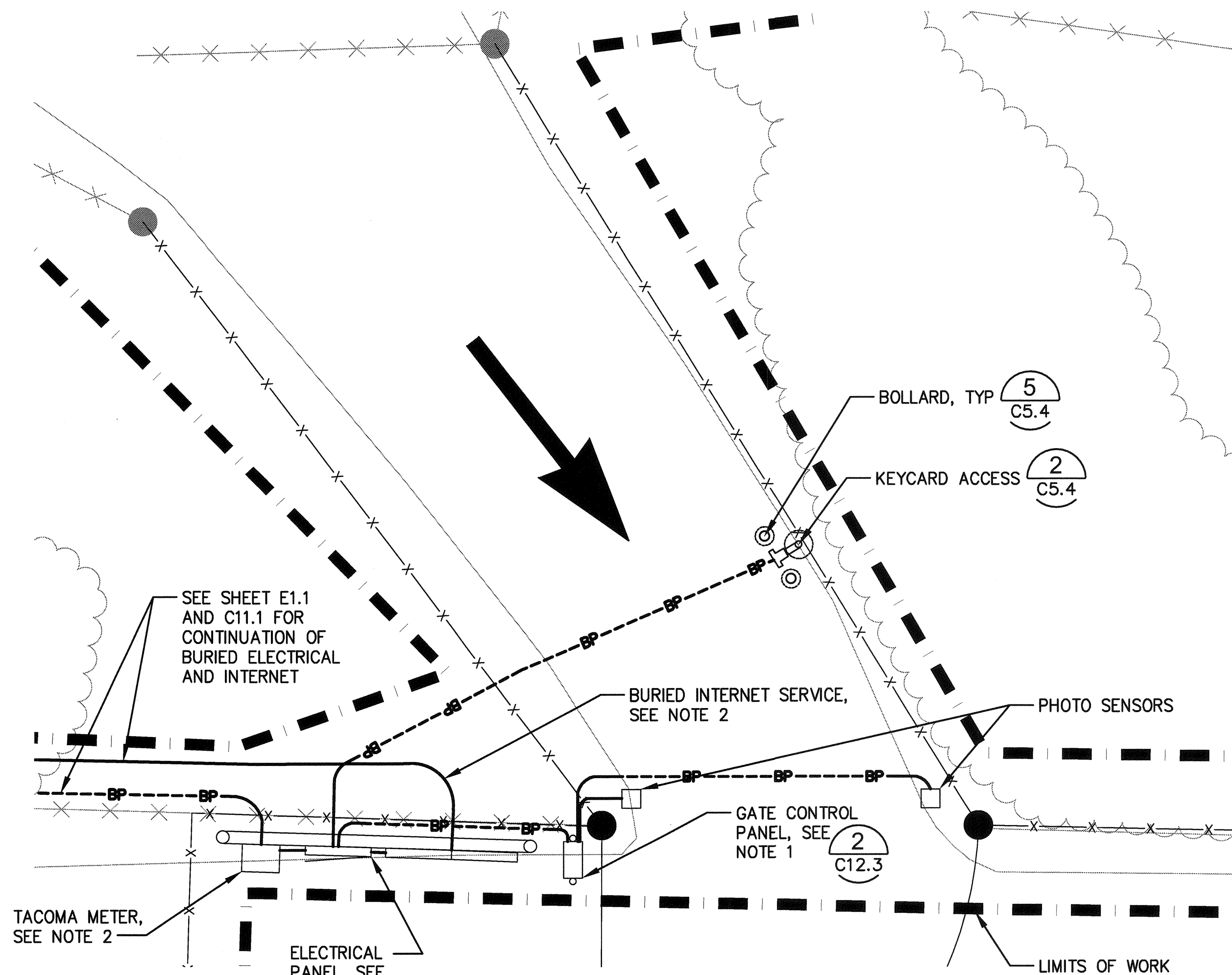
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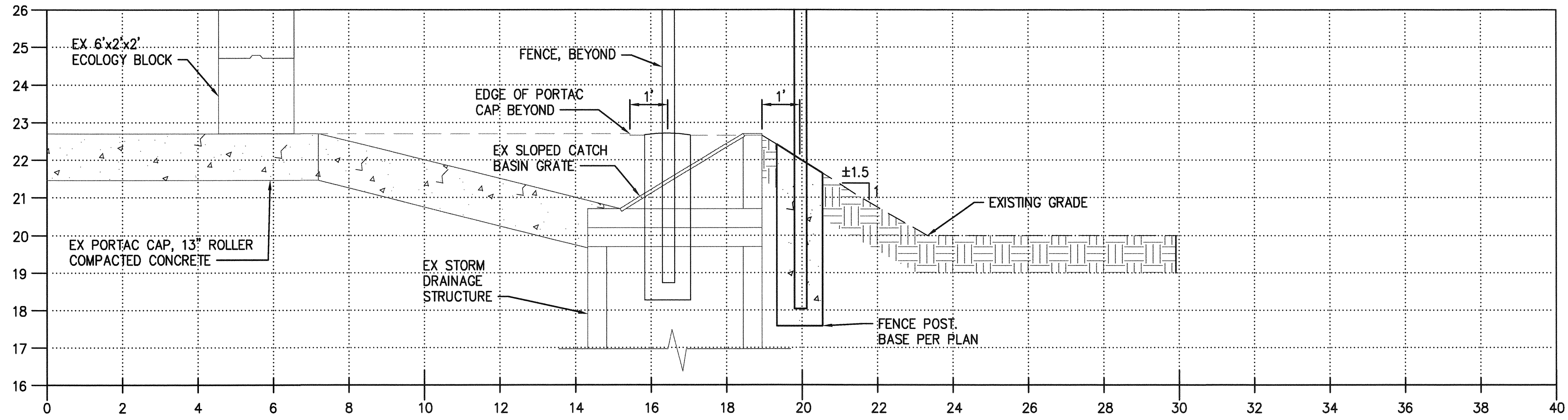
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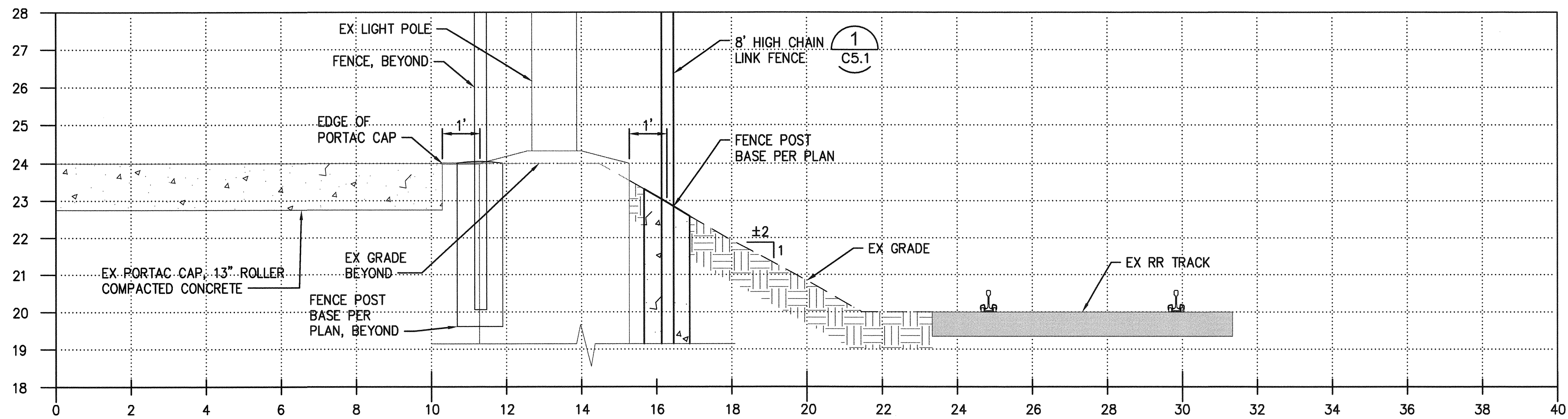
- NOTES:**
1. LOCATION OF GATE OPERATOR IS APPROXIMATE. CONTRACTOR TO COORDINATE WITH GATE OPERATOR MANUFACTURER FOR PLACEMENT OF GATE OPERATOR.
 2. FOR ELECTRICAL, SEE ELECTRICAL SHEETS E1.0 THRU E3.0.
 3. RECORD DRAWINGS DEPICT EXISTING DRIVEWAY PAVEMENT TO BE 13" OF ROLLER COMPACTED CONCRETE OVER 9" OF BALLAST. CONTRACTOR SHALL VERIFY PAVEMENT DEPTHS AND REPLACE IN KIND.

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6556 C12.1 SHEET 35 OF 53 CONT/CONS: 070287 M. ID: PHASE: 100%	PCT TRUCK STAGING PORTAC DETAILS	SWK: 05/20/2016 CHECKED BY: DATE RGC: 05/20/2016 DIRECTOR: ENG. DATE: 6/2/16 PRINTED BY: rchandler May 20, 2016 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	DRAWING SCALE: AS NOTED	RANGE: 03E SECTION: 01 VERT:	TOWNSHIP: 20N DAT-HRZ: PARCEL: 5000350150

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A FENCE SECTION
C11.1 SCALE: 1" = 2'



B FENCE SECTION
C11.2 SCALE: 1" = 2'

6556

C12.2

SHEET 36 OF 53

CONT/CONS: 07/0287

M. ID:

PHASE: 100%

PCT TRUCK STAGING

PORTAC

SITE SECTIONS

TOWNSHIP: 20N

RANGE: 03E

SECTION: 01

DAT-HRZ:

PARCEL: 5000350150

DRAWING SCALE: AS NOTED

APPROVED:

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RCC 05/20/2016

PROJ. ENGR DATE

TACOMA, WA 98401-1837

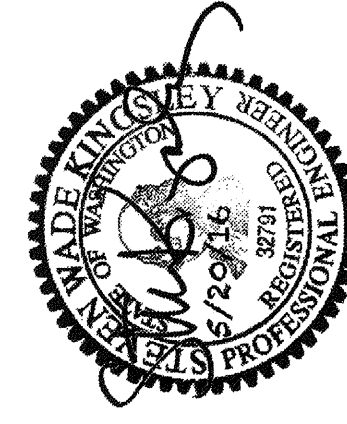
DIRECTOR ENG. DATE

6/2/16

PRINTED BY: rctandler

May 20, 2016

PORT ADDRESS: ONE SITCUM PLAZA

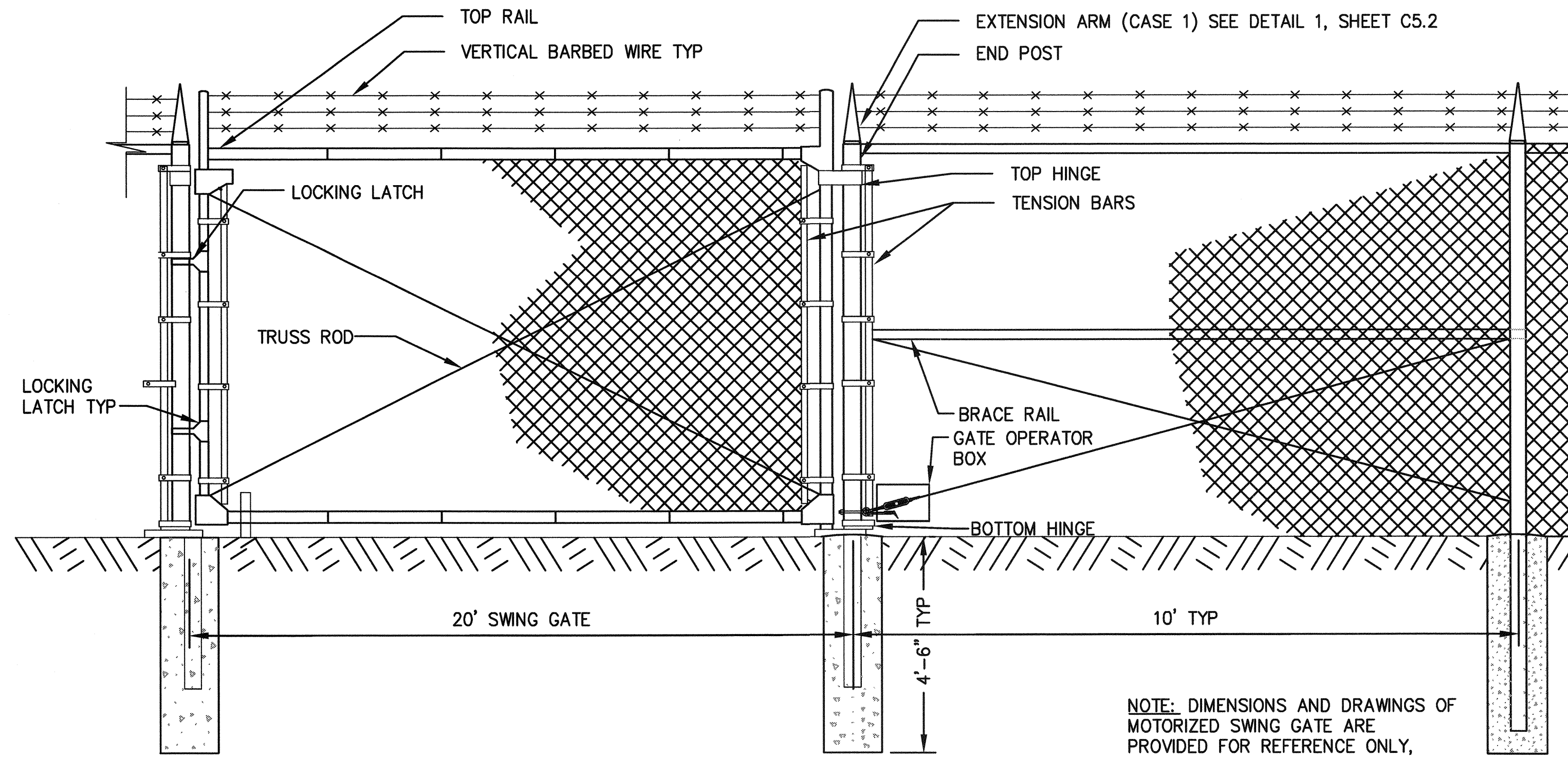


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P.O. BOX 1807 TACOMA, WA 98401

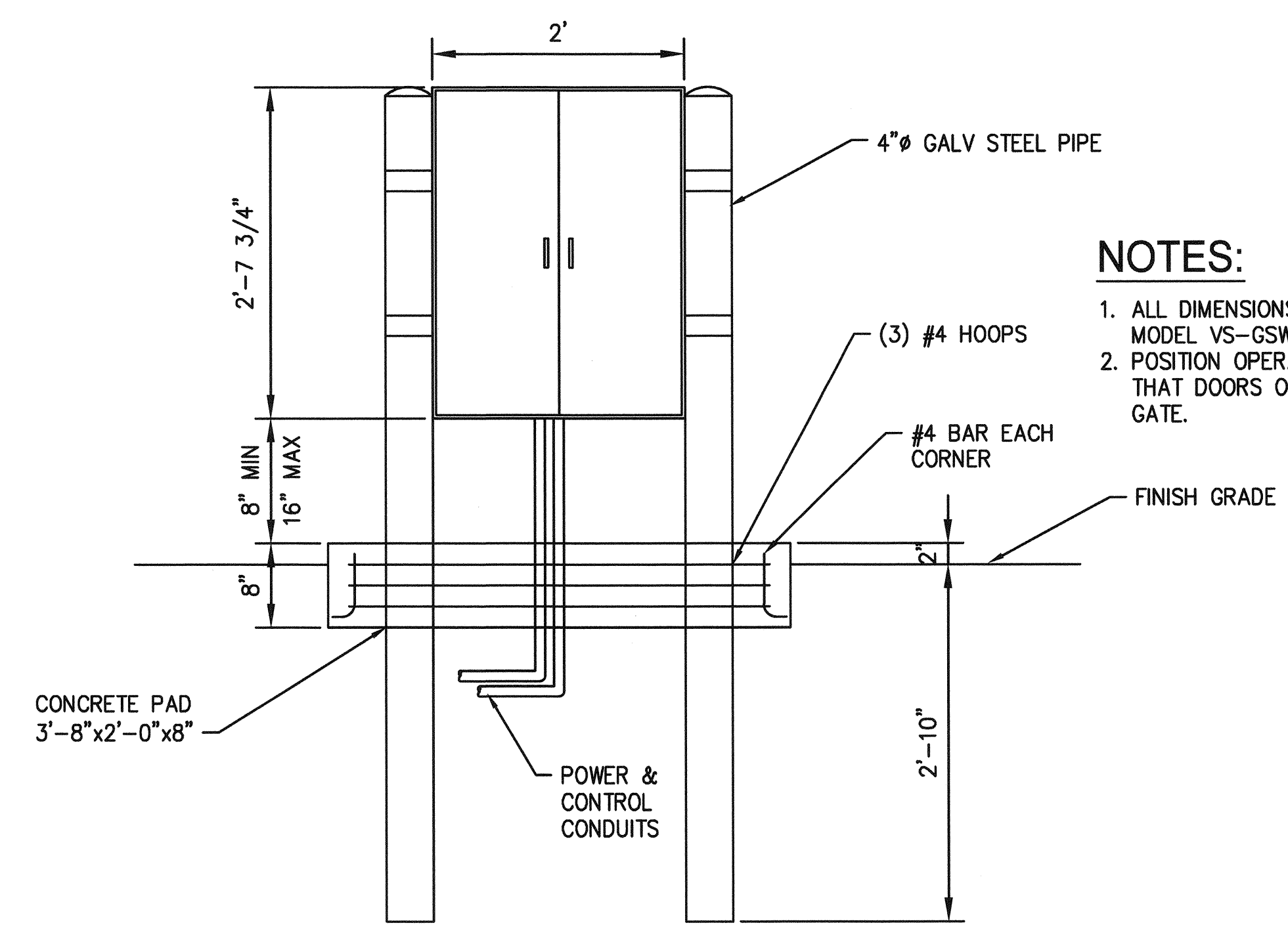
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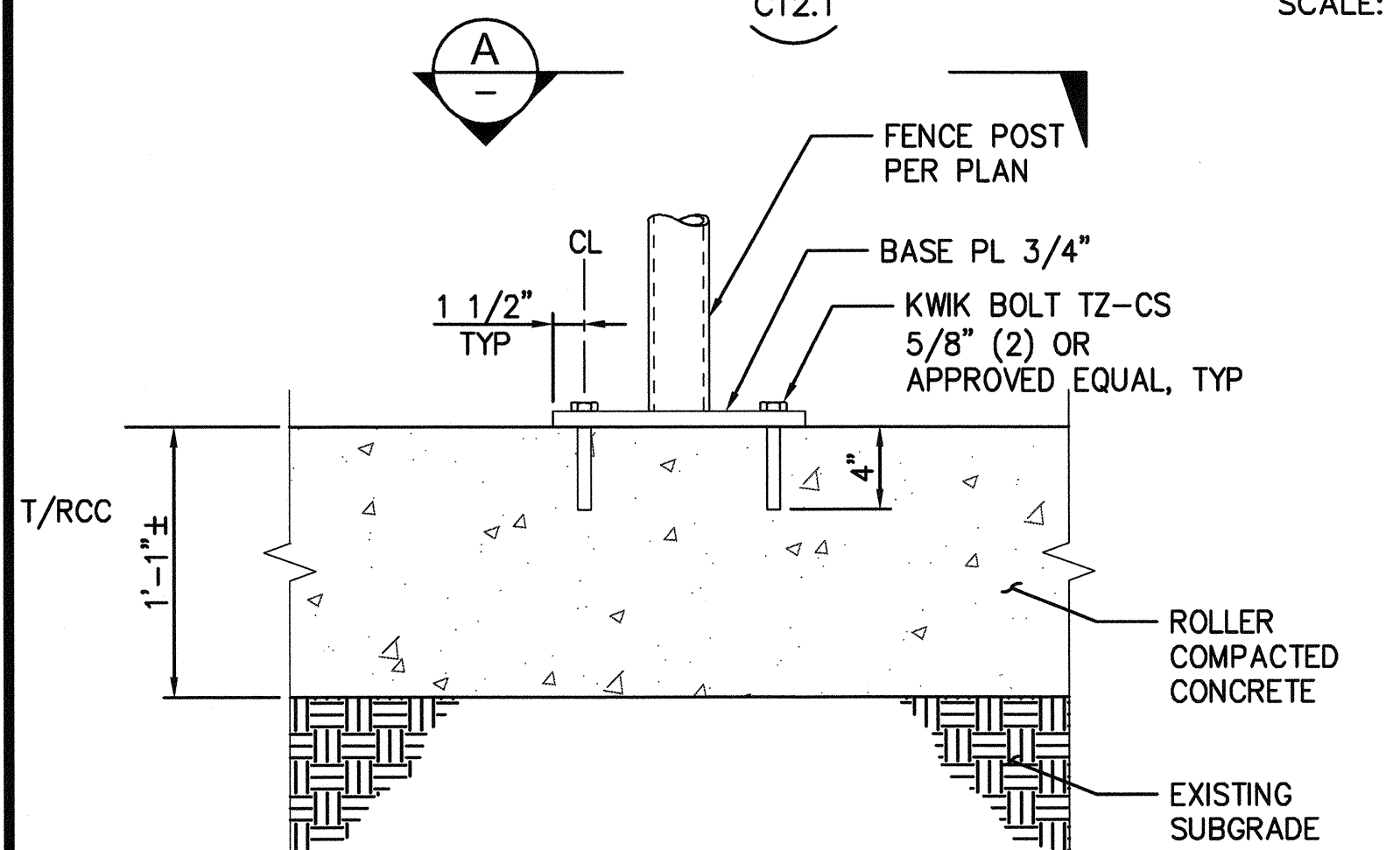
1 MOTORIZED CHAIN LINK GATE WITH CARD READERS, 20 FT-PORTAC DETAIL
C12.1 SCALE: NTS

NOTE: DIMENSIONS AND DRAWINGS OF MOTORIZED SWING GATE ARE PROVIDED FOR REFERENCE ONLY, CONTRACTOR SHALL SUBMIT ACTUAL PRODUCT FOR APPROVAL. SEE SPECIFICATIONS.

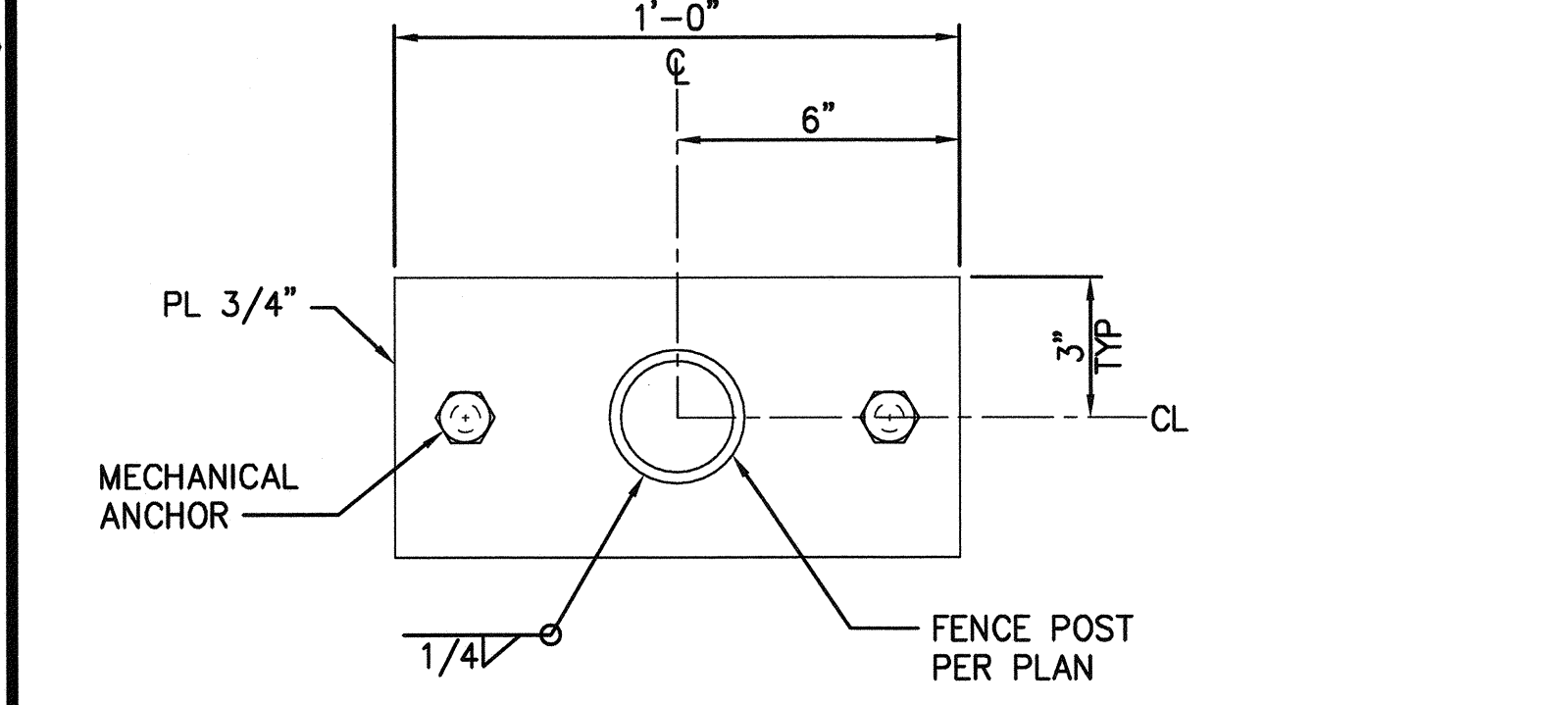


2 SWING GATE CONTROL PANEL
C12.1 SCALE: NTS

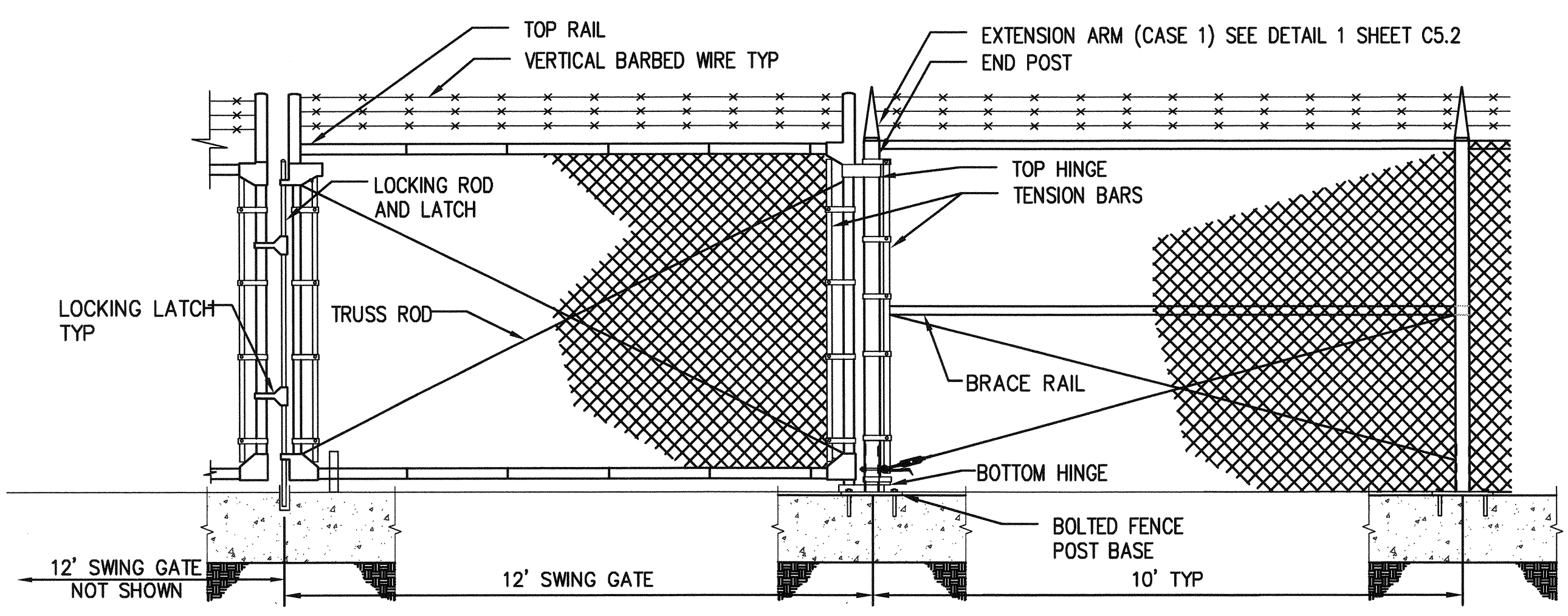
- NOTES:**
1. ALL DIMENSIONS BASED ON LINEAR MODEL VS-GSWG OPERATOR.
 2. POSITION OPERATOR CABINET SO THAT DOORS OPEN AWAY FROM GATE.



3 BOLTED FENCE POST BASE DETAIL
C11.1-C11.3, C12.3 SCALE: 1-1/2" = 1'-0"

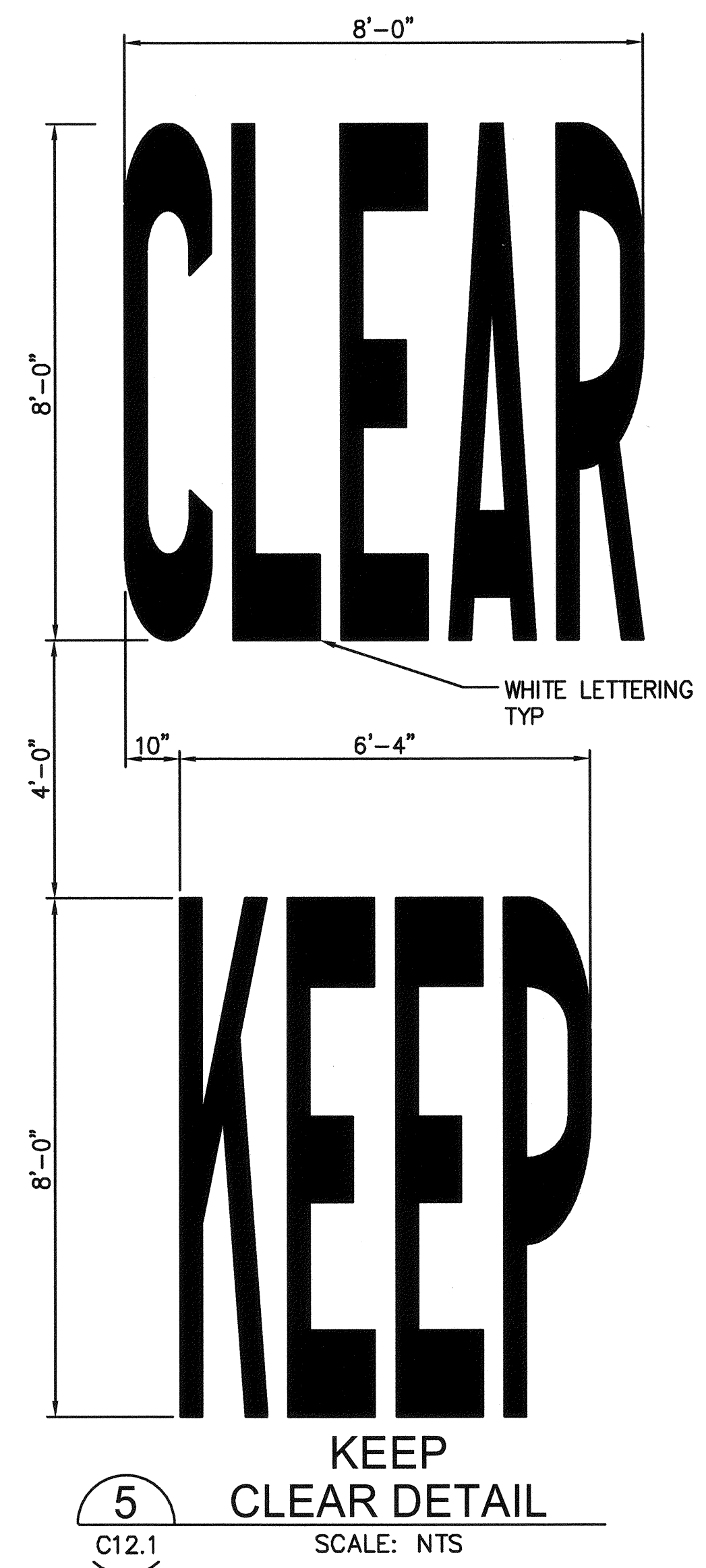


4 BOLTED FENCE POST BASE SECTION
C11.1 SCALE: 3" = 1'-0"



5 MANUAL CHAIN LINK SWING GATE, 24 FT-PORTAC DETAIL
C11.1 SCALE: NTS

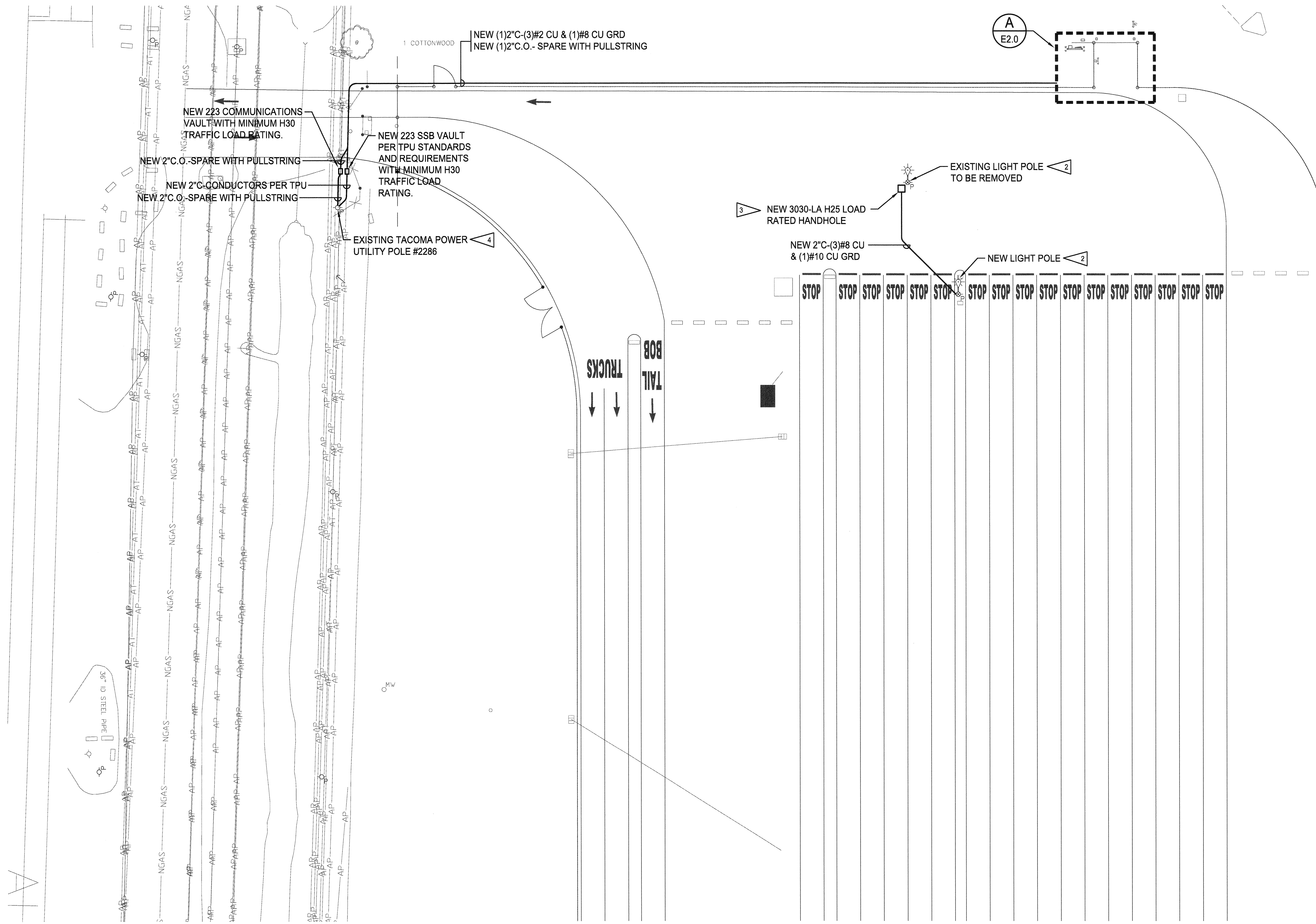
NOTE: DIMENSIONS AND DRAWINGS OF MANUAL SWING GATE ARE PROVIDED FOR REFERENCE ONLY, CONTRACTOR SHALL SUBMIT ACTUAL PRODUCT FOR APPROVAL. SEE SPECIFICATIONS.



6 KEEP CLEAR DETAIL
C12.1 SCALE: NTS

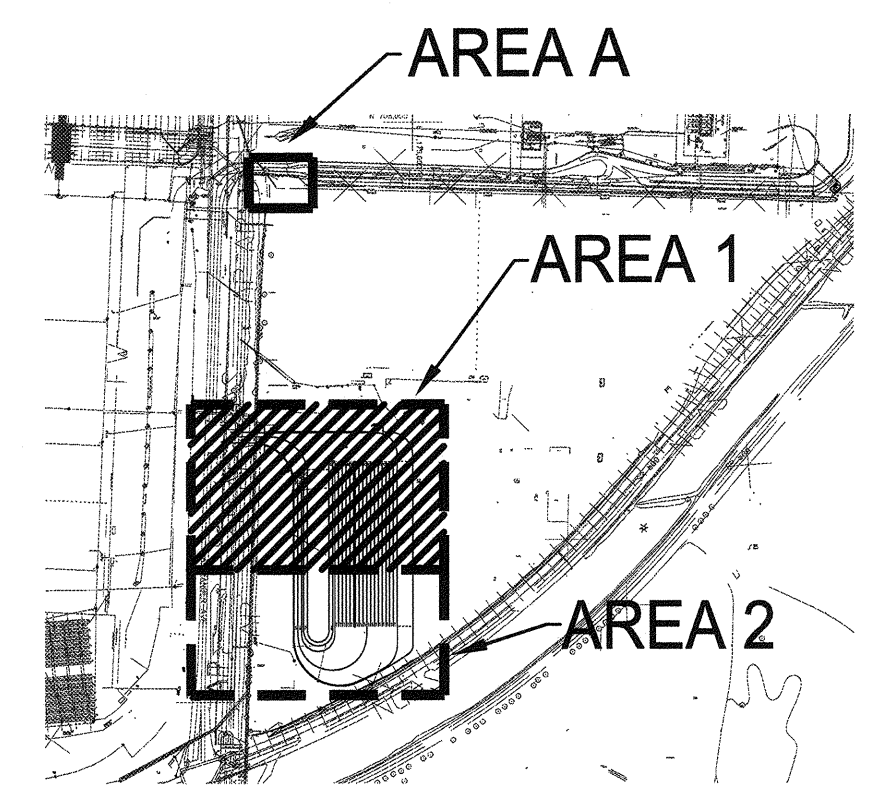
		SWK CHECKED BY: [Signature] DATE: 05/20/2016	RCC CHECKED BY: [Signature] DATE: 05/20/2016
	APPROVED: [Signature] DATE: 6/2/16	DIRECTOR DATE: 6/2/16	PRINTED BY: rchandler DATE: May 20, 2016
6556 C12.3 SHEET 37 OF 53	PCT TRUCK STAGING PORTAC DETAILS	RANGE: 03E SECTION: 01	DRAWING SCALE: AS NOTED
CONT/CONS: 070287 M. ID: PHASE: 100%	TOWNSHIP: 20N DAT-HRZ: PARCEL: 5000350150	DATE: 05/20/2016 DATE: 05/20/2016	DATE: 05/20/2016 DATE: 05/20/2016

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- GENERAL NOTES:**
- ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 80 PVC. ALL EXPOSED ABOVE GRADE CONDUIT SHALL BE PVC COATED RIGID STEEL.
 - METALLIC CONDUITS, COUPLINGS AND JOINTS OF METALLIC CONDUITS EMBEDDED IN CONCRETE, CDF, EARTH OR ASPHALT SHALL BE 1/2 LAP TAPED OR OTHERWISE MADE WATERTIGHT TO PREVENT INTRUSION OF MORTAR, WATER OR OTHER MATERIALS.
 - ALL CONDUIT SHOWN IS BELOW GRADE UNLESS NOTED OTHERWISE. SEE DETAIL B, E2.0 FOR TRENCHING REQUIREMENTS.
 - STORM DRAIN MANHOLES, ELECTRICAL/COMMUNICATION VAULTS, AND CATCH BASINS SHALL BE DESIGNED AND CONSTRUCTED WITH FLAT SLAB TOPS AND SHALL BE CONFIGURED TO ACCEPT FUTURE ADDITION OF A MINIMUM 4" RISER SECTION BETWEEN LID OR GRATE OR TOP OF STRUCTURE.

- ELECTRICAL NOTES:**
- CONTRACTOR SHALL DISCONNECT EXISTING POWER CIRCUIT FROM LIGHT POLE. REMOVE EXISTING DISCONNECT, LIGHTING CONTACTOR AND LIGHT FIXTURES.
 - NEW 95'-0", 80'-0" ABOVE GRADE, WOOD LIGHT POLE. CONTRACTOR SHALL PROVIDE NEW 30A, 480V, 3PH, FUSED DISCONNECT AND CONNECT TO NEW CONDUIT AND CONDUCTORS. REINSTALL EXISTING LIGHTING CONTACTOR AND PHOTOCELL ON NEW WOOD POLE. CONNECT TO EIGHT(8) NEW LIGHT FIXTURES MOUNTED ON POLE.
 - CONTRACTOR SHALL INTERCEPT EXISTING CONDUIT AT EXISTING LIGHT POLE LOCATION AND EXTEND INTO NEW HANDHOLE. PROVIDE WATERTIGHT SPLICE OF EXISTING AND NEW CONDUCTORS IN HANDHOLE.
 - EXISTING TACOMA POWER UTILITY POLE WITH NEW POLE MOUNTED TRANSFORMER TO SERVE NEW GATE ELECTRICAL SERVICE. PROVIDE CONDUIT POLE RISER AT EXISTING UTILITY POLE PER TACOMA POWER STANDARDS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR BRUSH OUT AROUND UTILITY POLE FOR INSTALLATION OF CONDUIT AND 223 SSB VAULT.



PARTIAL ELECTRICAL SITE PLAN
 SCALE: 1" = 30'-0"
 GRAPHIC SCALE
 1" = 30'-0" scale feet

 Port of Tacoma P.O. BOX 1887 TACOMA, WA 98401-1887	 CROSS ENGINEERS, INC. 6000 8th Avenue Tacoma, WA 98403 Phone: (253) 750-0118 Fax: (253) 750-0119 Job Number: 16002	APPR: _____	DATE: _____
		BY: _____	REVISION: _____
 STEVEN L. HUBBS LICENSED PROFESSIONAL ENGINEER STATE OF WASHINGTON No. 16002 5/13/16		APPROVED: <i>Shay Howard</i>	SLH 05/23/2016
6556 E1.0 SHEET 38 OF 53		PCT TRUCK STAGING PCT PARTIAL ELECTRICAL SITE PLAN - AREA 1	CHECKED BY: _____ DATE: _____ CLW 05/23/2016
CONT/CONS: 070287 M. ID: _____ PHASE: BID	TOWNSHIP: 20N RANGE: 03E SECTION: 01 DAT-HRZ: _____ VERT: _____ PARCEL: 5000350150 DRAWING SCALE: AS NOTED	DIRECTOR ENG. DATE: 6/2/16 PROJ. ENGR DATE: _____ PRINTED BY: Scotk May 22, 2016 PORT ADDRESS: ONE SITCOM PLAZA TACOMA, WA 98401-1837	AS NOTED

IF SHEET IS LESS THAN 22" x 34" IT IS A REDUCED SET

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NEMA 3R, 316 STAINLESS STEEL

PANEL SCHEDULE									
SURFACE MOUNTING 10,000 AIC		120/240 VOLTS 1PH 3WIRE 100 AMPS WITH 100 MAIN BREAKER							
NO.	GP1	LOCATION: GATE SERVING: GATE							
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.	
1	GATE OPERATOR	1.50	20		20	.18	RECEPTACLE	2	
3	CARD READER	.10				.36	SECURITY RECEPTACLES	4	
5	SPARE					.36	SECURITY RECEPTACLES	6	
7							SPARE	8	
9							SPARE	10	
11	SPARE		20		20		SPARE	12	
REMARKS:		CONNECTED LOAD:		2.5 KVA		11 AMPS			
		DEMAND LOAD:		2.9 KVA		12 AMPS			

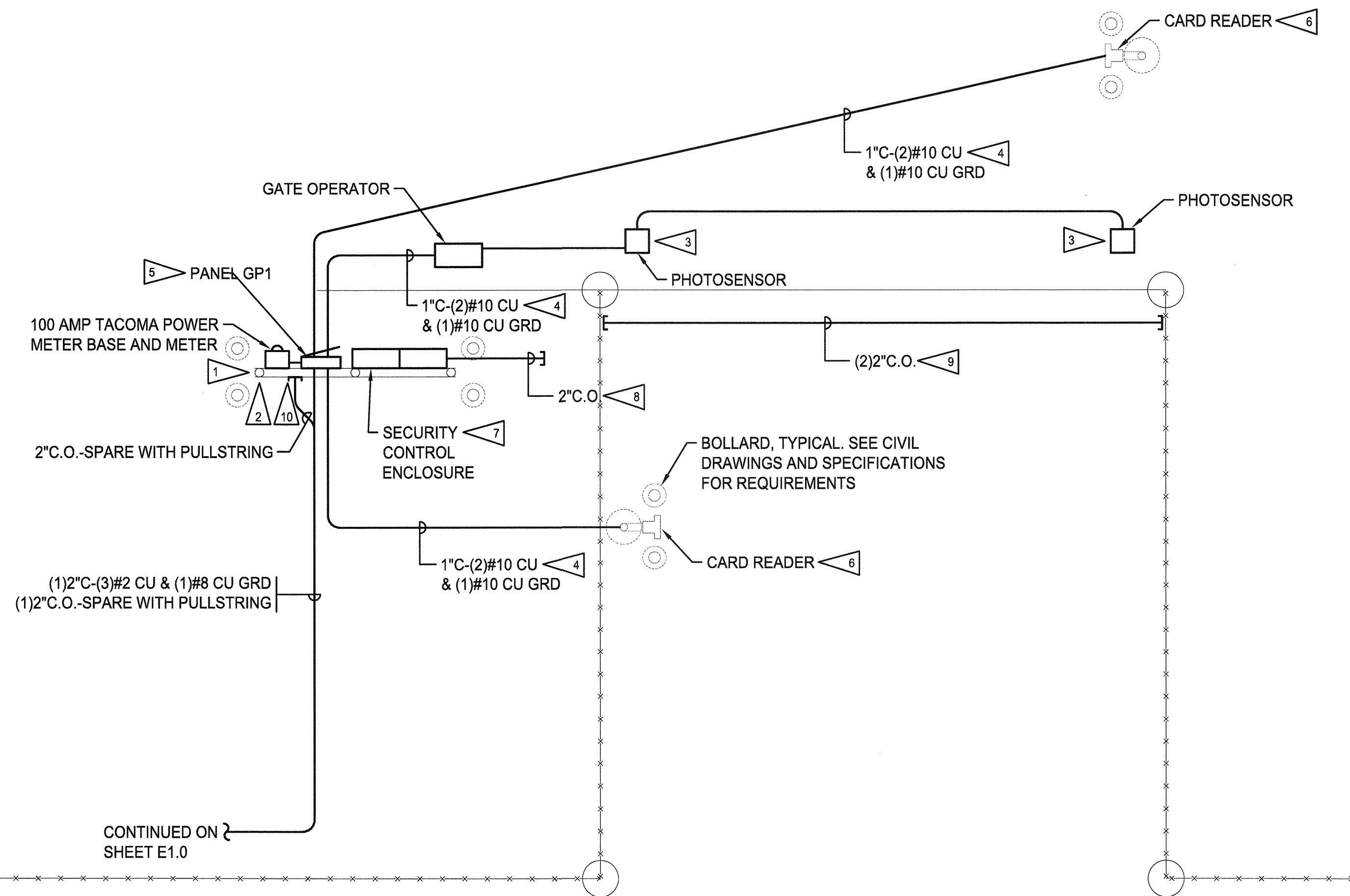
PROVIDE HANDLE TIES FOR ALL MULTI-CIRCUIT HOMERUNS SHARING A NEUTRAL PER THE NATIONAL ELECTRIC CODE ARTICLE 210.4 MULTIWIRE BRANCH CIRCUITS, PART (B) DISCONNECTING MEANS. DRAWINGS ARE DIAGRAMMATIC. WHERE THE CONTRACTOR MODIFIES THE CIRCUITING, THE CONTRACTOR SHALL PROVIDE AN INDIVIDUAL NEUTRAL PER CIRCUIT, MULTI-POLE CIRCUIT BREAKERS, OR CIRCUIT BREAKER HANDLE TIE TO MEET THE NEC ARTICLE. ALL COSTS ASSOCIATED WITH MODIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

GENERAL NOTES:

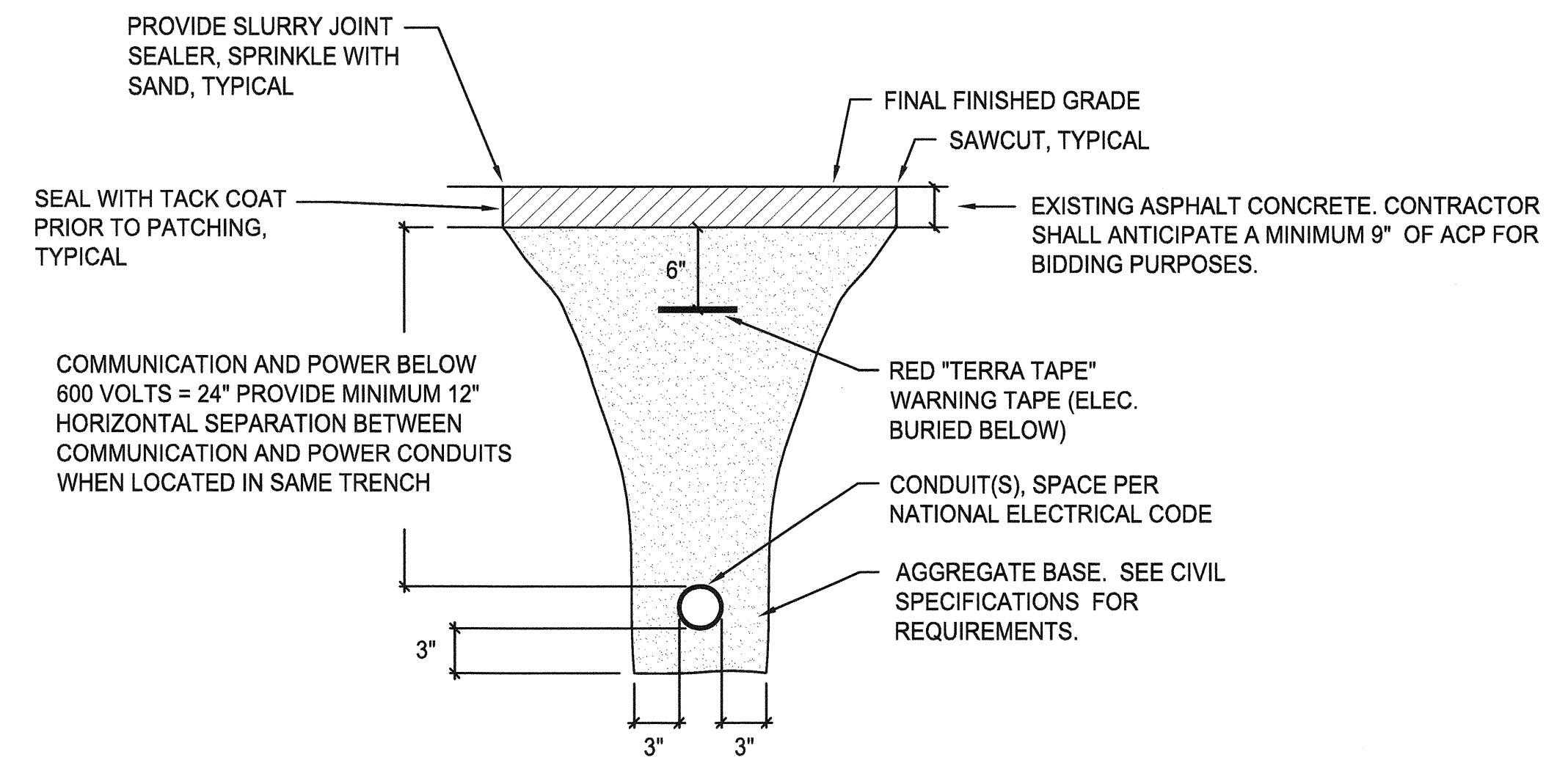
- ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 80 PVC. ALL EXPOSED ABOVE GRADE CONDUIT SHALL BE PVC COATED RIGID STEEL.
- METALLIC CONDUITS, COUPLINGS AND JOINTS OF METALLIC CONDUITS EMBEDDED IN CONCRETE, CDF, EARTH OR ASPHALT SHALL BE 1/2 LAP TAPED OR OTHERWISE MADE WATERTIGHT TO PREVENT INTRUSION OF MORTAR, WATER OR OTHER MATERIALS.
- ALL CONDUIT SHOWN IS BELOW GRADE UNLESS NOTED OTHERWISE. SEE DETAIL B, E2.0 FOR TRENCHING REQUIREMENTS.
- STORM DRAIN MANHOLES, ELECTRICAL/COMMUNICATION VAULTS, AND CATCH BASINS SHALL BE DESIGNED AND CONSTRUCTED WITH FLAT SLAB TOPS AND SHALL BE CONFIGURED TO ACCEPT FUTURE ADDITION OF A MINIMUM 4" RISER SECTION BETWEEN LID OR GRATE OR TOP OF STRUCTURE.

ELECTRICAL NOTES:

- PROVIDE 8'-0" SECTION OF 3" PVC COATED RIGID GALVANIZED STEEL CONDUIT WITH THREADED END CAP. PROVIDE 8" ROUND x 3'-0" DEEP CONCRETE BASE AND EMBED 3'-0" BELOW FINISHED GRADE.
- PROVIDE (3)1-5/8" PVC COATED STRUT EACH SIDE BETWEEN PVC COATED RIGID STEEL POSTS (CONDUIT) FOR MOUNTING EQUIPMENT. PROVIDE STAINLESS STEEL MOUNTING HARDWARE FOR STRUT AND EQUIPMENT MOUNTING.
- POWER FOR PHOTOSENSOR IS FROM GATE OPERATOR. CONTRACTOR SHALL PROVIDE 3/4" CONDUIT WITH CONDUCTORS PER GATE MANUFACTURER FROM GATE OPERATOR TO PHOTOSENSOR.
- CONTRACTOR SHALL PROVIDE ADDITIONAL 600V INSULATED CONTROL WIRING PER GATE MANUFACTURER REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE 120V, 20A, GFI, DUPLEX RECEPTACLE WITH NEMA 3R "IN USE" COVER MOUNTED ADJACENT TO PANEL. PROVIDE 3/4"C-(2)#12 CU & (1)#12 CU GRD AND CONNECT TO CIRCUIT #2 IN POWER PANEL.
- CONTRACTOR SHALL PROVIDE 1"C.O. WITH PULLSTRING FROM CARD READER TO GATE OPERATOR FOR SECURITY WIRING. SECURITY WIRING BY OTHERS.
- CONTRACTOR SHALL PROVIDE 48"x48"x10", NEMA 4X, HINGED AND LOCKING SECURITY CONTROL ENCLOSURE. PROVIDE FOUR(4), 125V, 20A, GFI, DUPLEX RECEPTACLES IN ENCLOSURE FOR CONNECTION AT SECURITY EQUIPMENT. PROVIDE (2)3/4"C-(2)#12 CU & (1)#12 CU GRD EACH FROM PANEL GP1 TO DUPLEX RECEPTACLES. CONNECT TWO(2) DUPLEX RECEPTACLES TO EACH POWER CIRCUIT.
- CONTRACTOR SHALL PROVIDE 2"C.O. WITH PULLSTRING FROM SECURITY CONTROL ENCLOSURE TO FENCE. STUB AND CAP CONDUITS 6" ABOVE FINISHED GRADE.
- CONTRACTOR SHALL PROVIDE (2)2"C.O. WITH PULLSTRINGS ACROSS GATE OPENING. STUB AND CAP CONDUITS 6" ABOVE FINISHED GRADE.
- CONTRACTOR SHALL STUB AND CAP CONDUIT 6" ABOVE FINISHED GRADE.



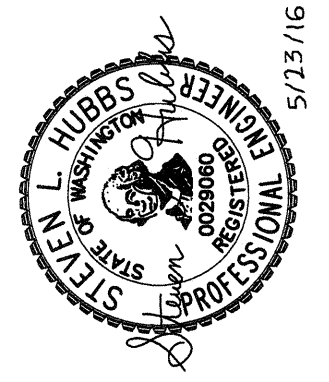
A PARTIAL ELECTRICAL PLAN - SOUTH SECURITY GATE
SCALE: 1/4" = 1'-0"



B TYPICAL CONDUIT TRENCHING
NOT TO SCALE



CROSS ENGINEERS, INC.
6000 8th Avenue
Tacoma, WA 98401
Phone: (253) 798-0118
Fax: (253) 798-0119
www.crossengineers.com



APPROVED: *Steven L. Hubbs*
DIRECTOR: *6/2/16*
PRINTED BY: Scott May 22, 2016
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PCT TRUCK STAGING
PCT SOUTH GATE ELECTRICAL PLAN/ ELECTRICAL DETAILS
TOWNSHIP: 20N
DATE: HRZ:
PARCEL: 5000350150
RANGE: 03E
SECTION: 01
DRAWING SCALE: AS NOTED

6556
E2.0
SHEET 40 OF 53
CONT/CONS: 070287
M. ID:
PHASE: BID

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GENERAL NOTES:

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4. STORM DRAIN MANHOLES, ELECTRICAL/COMMUNICATION VAULTS, AND CATCH BASINS SHALL BE DESIGNED AND CONSTRUCTED WITH FLAT SLAB TOPS AND SHALL BE CONFIGURED TO ACCEPT FUTURE ADDITION OF A MINIMUM 4" RISER SECTION BETWEEN LID OR GRATE OR TOP OF STRUCTURE.

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2. PROVIDE (3)1-5/8" PVC COATED STRUT EACH SIDE BETWEEN PVC COATED RIGID STEEL POSTS (CONDUIT) FOR MOUNTING EQUIPMENT. PROVIDE STAINLESS STEEL MOUNTING HARDWARE FOR STRUT AND EQUIPMENT MOUNTING.
3. POWER FOR PHOTOSENSOR IS FROM GATE OPERATOR. CONTRACTOR SHALL PROVIDE 3/4" CONDUIT WITH CONDUCTORS PER GATE MANUFACTURER FROM GATE OPERATOR TO PHOTOSENSOR.
4. CONTRACTOR SHALL PROVIDE ADDITIONAL 600V INSULATED CONTROL WIRING PER GATE MANUFACTURER REQUIREMENTS.
5. CONTRACTOR SHALL PROVIDE 120V, 20A, GFI, DUPLEX RECEPTACLE WITH NEMA 3R "IN USE" COVER MOUNTED ADJACENT TO PANEL. PROVIDE 3/4"C-(2)#12 CU & (1)#12 CU GRD AND CONNECT TO CIRCUIT #2 IN POWER PANEL.
6. CONTRACTOR SHALL PROVIDE 1"C.O. WITH PULLSTRING FROM CARD READER TO GATE OPERATOR FOR SECURITY WIRING. SECURITY WIRING BY OTHERS.
7. CONTRACTOR SHALL PROVIDE 48"x48"x10", NEMA 4X, HINGED AND LOCKING SECURITY CONTROL ENCLOSURE. PROVIDE FOUR(4), 125V, 20A, GFI, DUPLEX RECEPTACLES IN ENCLOSURE FOR CONNECTION AT SECURITY EQUIPMENT. PROVIDE (2)3/4"C-(2)#12 CU & (1)#12 CU GRD EACH FROM PANEL GP2 TO DUPLEX RECEPTACLES. CONNECT TWO(2) DUPLEX RECEPTACLES TO EACH POWER CIRCUIT.
8. CONTRACTOR SHALL PROVIDE 2"C.O. WITH PULLSTRING FROM SECURITY CONTROL ENCLOSURE TO FENCE. STUB AND CAP CONDUITS 6" ABOVE FINISHED GRADE.
9. CONTRACTOR SHALL PROVIDE (2)2"C.O. WITH PULLSTRINGS ACROSS GATE OPENING. STUB AND CAP CONDUITS 6" ABOVE FINISHED GRADE.

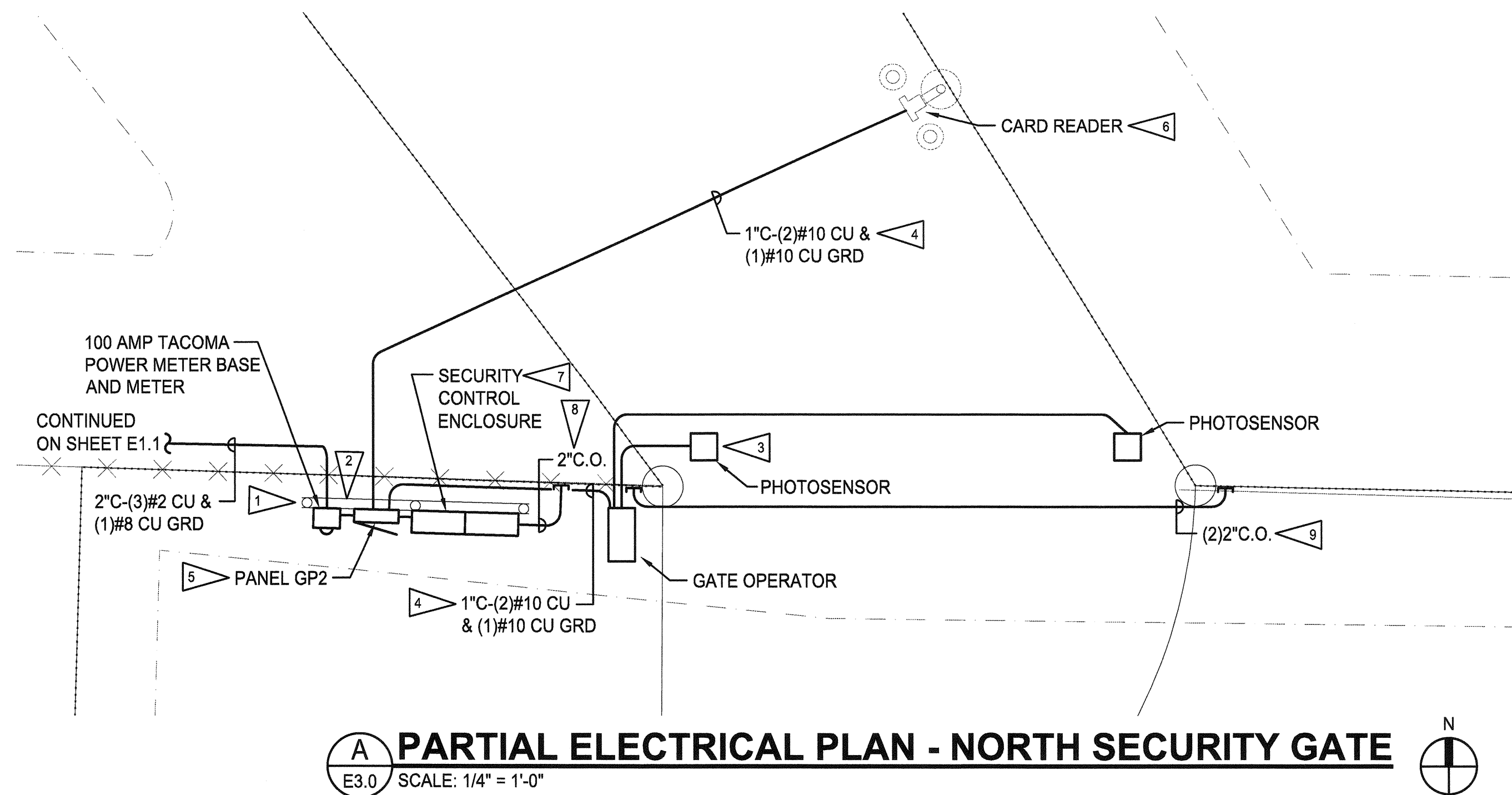
NEMA 3R, 316 STAINLESS STEEL

SURFACE MOUNTING 10,000 AIC							
No. GP2				120/240 VOLTS 1PH 3WIRE 100 AMPS WITH 100 MAIN BREAKER			
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.
1	GATE OPERATOR	1.50	20	20	.18	RECEPTACLE	2
3	CARD READER	.10			.36	SECURITY RECEPTACLES	4
5	SPARE				.36	SECURITY RECEPTACLES	6
7						SPARE	8
9						SPARE	10
11	SPARE		20	20		SPARE	12

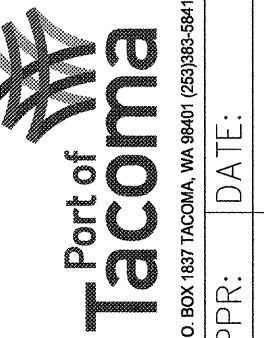
REMARKS: .

CONNECTED LOAD: 2.5 KVA 11 AMPS
DEMAND LOAD: 2.9 KVA 12 AMPS

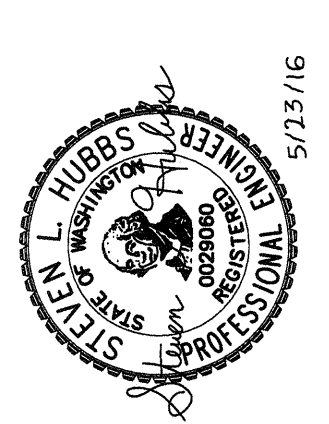
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A PARTIAL ELECTRICAL PLAN - NORTH SECURITY GATE
E3.0 SCALE: 1/4" = 1'-0"



CROSS ENGINEERS, INC.
6000 6th Avenue
Tacoma, WA 98404
info@crossengineers.com
Phone: (253) 724-0118
Job Number: 16-002



APPROVED: *[Signature]* 05/23/2016
DIRECTOR: *[Signature]* 05/23/2016
PRINTED BY: Scott May 22, 2016
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

PCT TRUCK STAGING
PORTAC NORTH GATE ELECTRICAL PLAN
TOWNSHIP: 20N RANGE: 03E SECTION: 01
DATE-HRZ: VERT:
PARCEL: 5000350150 DRAWING SCALE: AS NOTED

6556
E3.0
SHEET 41 OF 53
CONT/CONS: 070287
M. ID:
PHASE: BID

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approved plans for bids only

PORT OF TACOMA DRIVEWAY AND CHANNELIZATION IMPROVEMENTS

ALEXANDER AVENUE
TACOMA, WASHINGTON

ITEMS	TO BUILD	EXISTING	ITEMS	TO BUILD	EXISTING
CEMENT CONCRETE PAVEMENT			COMBINATION POLE		
ASPHALTIC CONCRETE PAVEMENT			TELEPHONE POLE		
CEMENT CONCRETE SIDEWALK			GUY POLE		
CEMENT CONCRETE CURB			ANCHOR OR DEADMAN		
STORM SEWER			CONDUIT		
SANITARY SEWER			TREE		
MANHOLE			WIRE FENCE		
INLET OR CATCH BASIN			WOOD FENCE		
TELEPHONE CONDUIT			MONUMENT		
GAS MAIN			ROCK WALL		
GAS SERVICE			RETAINING WALL		
WATER MAIN			PROFILE CENTER LINE		
WATER SERVICE			PROFILE LINE, RIGHT		
HYDRANT			PROFILE LINE, LEFT		
WATER GATE			CULVERT PIPE		
ORNAMENTAL LIGHT			MONUMENT LINE		
POWER POLE			CONSTRUCTION CENTER LINE		

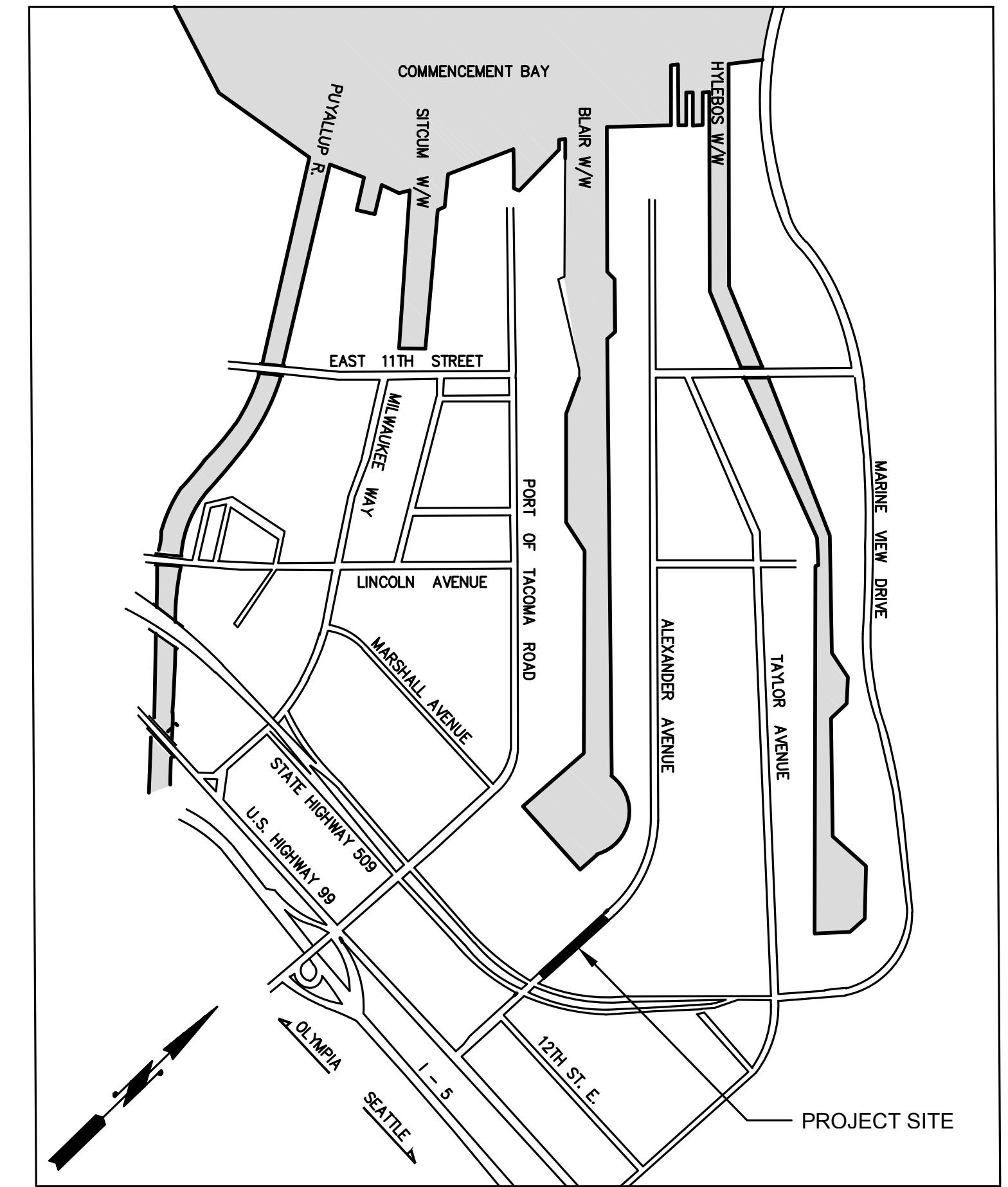
ABBREVIATIONS

BC	BOTTOM OF CURB
BW	BACK OF WALK
C&G	CURB & GUTTER
CB	CATCH BASIN
CL	CENTERLINE
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCTION
DIA, Ø	DIAMETER
DIP	DUCTILE IRON PIPE
D/W	DRIVEWAY
E	EAST, EASTING
EX/EXIST	EXISTING
F	FINISH FLOOR
FL	FLOW LINE
HP	HIGH POINT
IE	INVERT ELEVATION
LF	LINEAR FOOT
LT	LEFT
LP	LOW POINT
MECH	MECHANICAL
MH	MANHOLE
N	NORTH, NORTHING
NTS	NOT TO SCALE
P	POWER
PC	POINT OF CURVATURE
PCC	POINT OF COMBINED CURVATURE
P/L	PROPERTY LINE
PRC	POINT OF REVERSED CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE/POINT OF VERTICAL CURB
R	RADIUS
RT	RIGHT
RTO	RETURN TO OWNER
R/W	RIGHT-OF-WAY
S	SOUTH
SD	STORM DRAIN
SS	SANITARY SEWER
STA	STATION
S/W	SIDEWALK
T	TELEPHONE
TC	TOP OF CURB
TYP	TYPICAL
U	UNDERGROUND
W	WATER/WEST
W/W	WITH
Ø	AT

GENERAL PLAN NOTES

- COORDINATE ALL WORK WITH ON-SITE DOCUMENTS FOR BUILDING PERMITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE NOTIFICATION AND COORDINATION WITH THE CITY OF TACOMA.
- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2010 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AS MODIFIED FOR USE BY THE CITY OF TACOMA AND THE CITY OF TACOMA STANDARD PLANS.
- A COPY OF THE APPROVED PLANS AND SPECIFICATIONS SHALL BE ON-SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF UTILITIES BY CONTACTING A UTILITY LOCATE SERVICE AND SHALL PROVIDE SUFFICIENT NOTIFICATION TO THE AFFECTED UTILITY COMPANIES PRIOR TO STARTING WORK. COORDINATE WORK FOR EXISTING UTILITIES WITH CONTACTS SHOWN IN THE UTILITY CONTACTS TABLE. CONTACT UNDERGROUND UTILITIES LOCATION AT 1-800-424-5555 AT LEAST 48 HOURS BEFORE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE TACOMA FIRE DEPARTMENT (253) 591-5737 24 HOURS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE. THE CONTRACTOR SHALL ALSO NOTIFY THE FIRE DEPARTMENT OF ALL NEW, RELOCATED, OR ELIMINATED HYDRANTS RESULTING FROM THIS WORK.
- THE CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS ON ALL AFFECTED STREETS AT ALL TIMES.
- MAINTAIN AND PROTECT ALL MANHOLES, CATCH BASINS, FIRE HYDRANTS, MONITORING WELLS, WATER VALVES, PIPING, SURVEY MONUMENTS, TRAFFIC CONTROL BOXES, WATER METERS AND ENGINEER OTHER IMPROVEMENTS UNLESS OTHERWISE NOTED ON THE PLANS. CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY THE CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.
- THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF 24 MONTHS FROM THE DATE OF CITY APPROVAL. THE CITY RESERVES THE RIGHT TO REQUIRE REVISIONS, ADDITIONS, DELETIONS, OR MODIFICATIONS SHOULD CONSTRUCTION BE DELAYED BEYOND THIS TIME LIMITATION OR IF FIELD CONDITIONS ARE DIFFERENT FROM WHAT IS DEPICTED ON THESE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A TRAFFIC CONTROL PLAN TO THE CITY THAT MEETS THE CRITERIA OF THE CITY OF TACOMA TRAFFIC CONTROL HANDBOOK AND RIGHT-OF-WAY DESIGN MANUAL. CONTACT PUBLIC WORKS TRAFFIC ENGINEER, PHONE # (253) 591-5554 FOR SPECIFIC TRAFFIC CONTROL REQUIREMENTS FOR THIS PROJECT. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED AND APPROVED PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL VERIFY ALL UTILITY POINTS OF CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY.
- EXCAVATED MATERIAL MEETING PROJECT SPECIFICATIONS MAY BE USED FOR BACKFILL. NO STOCKPILING OF EXCAVATED MATERIAL IS ALLOWED WITHIN THE PROJECT LIMITS.
- THE CONSTRUCTION BASELINE ON THE PLANS IS LOCATED ON THE EXISTING CENTERLINE OF RIGHT-OF-WAY FOR S. 12TH ST., MARTIN LUTHER KING JR. WAY AND THE ALLEY; ALL DIMENSIONS, STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION BASELINE UNLESS NOTED OTHERWISE.
- LIMITS OF PAVEMENT CURB, AND SIDEWALK REMOVAL SHOWN ON THE PLAN FOR BID PURPOSES. EXACT SAWCUT AND PAVEMENT REMOVAL LIMITS WILL BE DETERMINED BY THE CITY OF TACOMA CONSTRUCTION INSPECTOR IN THE FIELD.
- ALL SIDEWALKS AND CURB RAMP CONSTRUCTION SHALL BE CONSTRUCTED TO THE MAXIMUM EXTENT FEASIBLE IN ACCORDANCE TO THE ADA STANDARDS FOR ACCESSIBLE DESIGN, 28 CFR, PART 35.
- REMOVE AND REPLACE ALL BROKEN, DAMAGED, OR HAZARDOUS SIDEWALK, CURB AND GUTTER, AND DRIVEWAYS.
- RESTORATION SHALL BE IN ACCORDANCE WITH THE CITY OF TACOMA ROW RESTORATION POLICY AS ADOPTED JUNE 2, 2009.
- THE ENGINEER OF RECORD SHALL PROVIDE AN ENGINEER'S CERTIFICATION TO THE CITY OF TACOMA AFTER FACILITY INSTALLATION AND PRIOR TO PERMIT FINAL INSPECTION AND/OR CLOSURE. THE ENGINEER'S CERTIFICATION SHALL INCLUDE:
 - THE PERMIT NUMBER
 - STATEMENTS TO ATTEST:
 - THAT ALL STORMWATER FACILITIES HAVE BEEN INSTALLED ACCORDING TO THE APPROVED PERMIT DOCUMENTS. CHANGES TO THE APPROVED PERMIT SET THAT ARE REQUIRED DURING CONSTRUCTION SHALL BE SUBMITTED TO BLUS FOR ESSE TO REVIEW AND APPROVAL DURING THE CONSTRUCTION PHASE AND PRIOR TO THE CHANGE BEING CONSTRUCTED.
 - AS-BUILT DRAWINGS HAVE BEEN PROVIDED TO THE CITY ELECTRONICALLY. THESE SHALL BE PROFESSIONALLY DRAFTED ENGINEERING DRAWINGS THAT ARE STAMPED, SIGNED, AND DATED BY A WASHINGTON STATE LICENSED ENGINEER. THE DRAWINGS MUST ACCURATELY REPRESENT THE PROJECT AS CONSTRUCTED.
 - THE OPERATIONS AND MAINTENANCE MANUAL IS LOCATED ONSITE.

THE ENGINEER'S CERTIFICATION SHALL BE SUBMITTED TO ENVIRONMENTAL SERVICES / PLAN REVIEW LEAD/ 326 EAST D STREET / TACOMA, WA 98421. FOR SITE AND BUILDING PERMITS SEND A COPY OF THE CERTIFICATION TO BUILDING AND LAND USE SERVICES 747 MARKET STREET, ROOM 345, TACOMA, WA 98402.



VICINITY MAP

NTS

TRAFFIC CONTROL NOTES

LOCATION: ALEXANDER AVENUE
THE FOLLOWING SPECIAL TRAFFIC CONTROLS SHALL SUPPLEMENT SECTION 1-07.23 OF THE STANDARD SPECIFICATIONS.

- BIDIRECTIONAL TRAFFIC TO MAINTAINED ON ALEXANDER AVENUE THROUGHOUT THE DURATION OF PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A TRAFFIC CONTROL PLAN TO THE CITY THAT MEETS THE CITY OF TACOMA TRAFFIC CONTROL HANDBOOK AND RIGHT-OF-WAY DESIGN MANUAL. CONTACT TRAFFIC DEPARTMENT, PHONE NUMBER (253) 591-5554, FOR SPECIFIC TRAFFIC CONTROL REQUIREMENTS FOR THIS PROJECT. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED AND APPROVED PRIOR TO COMMENCING WORK.
- WHEN NECESSARY, AND JUSTIFIED, SINGLE LANES OF TRAFFIC MAY BE CLOSED DURING SPECIFIED HOURS OF THE DAY. THE DETERMINATION OF THESE HOURS SHALL BE IN CONSULTATION WITH AND SUBJECT TO THE APPROVAL OF THE CITY TRAFFIC ENGINEER AND PORT OF TACOMA. PROVIDED THAT LOCAL ACCESS IS MAINTAINED AT ALL TIMES WITH A MINIMUM OF A 12-FOOT WIDE ACCESS LANE FOR EACH DIRECTION OF TRAFFIC. THE CONTRACTOR SHALL COORDINATE ANY LANE CLOSURES AND COOPERATE WITH THE VARIOUS BUSINESSES AND/OR RESIDENCES ADJACENT TO THE PROJECT SITE. A MINIMUM OF ONE ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES AND DRIVEWAYS ON ALEXANDER AVENUE AT ALL TIMES.

THREE (3) WORKING DAYS PRIOR TO ANY LANE CLOSURE, THE CONTRACTOR SHALL NOTIFY:

TACOMA PUBLIC WORKS ENGINEERING DIVISION	(253-591-5500)
TACOMA PUBLIC WORKS STREETS AND GROUNDS	(253-591-5495)
TACOMA PUBLIC WORKS SOLID WASTE	(253-591-5544)
TACOMA FIRE DEPARTMENT	(253-591-5733)
TACOMA POLICE DEPARTMENT	(253-591-5951)
LESA COMMUNICATION CENTER	(253-798-4721-Opt.#3)
TACOMA PUBLIC SCHOOLS TRANSPORTATION OFFICE	(253-571-1853)
PIERCE TRANSIT	(253-581-8109)

NOTE:
PRIOR TO SCHEDULING OF THE PRE-CONSTRUCTION MEETING AND ISSUANCE OF THE WORK ORDER PERMIT, A BOND SHALL BE SUBMITTED BY THE PERMIT APPLICANT FOR THE VALUE OF THE SCOPE OF THE WORK TO BE PERFORMED AS ILLUSTRATED BY THE APPROVED WORK ORDER PLANS IN ACCORDANCE WITH T.M.C. 10.22.070, SECTION F.

GENERAL CONSTRUCTION SEQUENCE:

- ARRANGE NECESSARY PRE-CONSTRUCTION MEETINGS WITH THE CITY OF TACOMA CONSTRUCTION DIVISION AND BUILDING AND LAND USE SERVICE, TACOMA POWER, TACOMA WATER, ARCHITECT, AND ENGINEER.
- STAKE PROJECT LIMITS PRIOR TO BEGINNING CONSTRUCTION.
- NOTIFY CITY INSPECTOR IN WRITING ABOUT SCHEDULED UTILITY AND ROAD CLOSURES AT LEAST 14 DAYS PRIOR TO CONSTRUCTION.
- DAMAGE TO ANY OF THE PUBLIC UTILITIES AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR.
- INSTALL ALL APPLICABLE TESC FACILITIES PER BUILDING PERMIT PLANS. MAINTAIN ALL TESC FACILITIES DURING THE LENGTH OF THE CONSTRUCTION PROCESS. ADDITIONAL FACILITIES MAY BE REQUIRED AS FIELD CONDITIONS WARRANT.
- DEMOLISH UTILITIES PER APPROVED PLANS. COORDINATE UTILITY DISRUPTIONS WITH UTILITY PROVIDERS AND ADJACENT PROPERTY OWNERS AT LEAST 10 DAYS PRIOR TO CONSTRUCTION.
- COORDINATE INSTALLATION OF UTILITIES WITH UTILITY PROVIDERS, KEEPING COMMUNITY HEALTH CARE, ARCHITECT AND ENGINEER INFORMED OF ALL TASKS.
- INSTALL ALL NEW PAVEMENT, CHANNELIZATION AND SIGNAGE.
- REMOVE TESC FACILITIES ONLY AFTER OBTAINING FINAL APPROVAL FROM CITY INSPECTOR.
- TRAFFIC TO REMAIN OPEN ON ALEXANDER AVENUE DURING CONSTRUCTION.

ELEVATION DATUM

VERTICAL DATUM: CITY OF TACOMA (NGVD 29)
BENCHMARK: 3 INCH BRASS DISK ON MILWAUKEE WAY, SOUTH OF E. 11TH AVENUE.
BENCHMARK NO. 2863
ELEVATION = 12.117'

BASIS OF BEARING

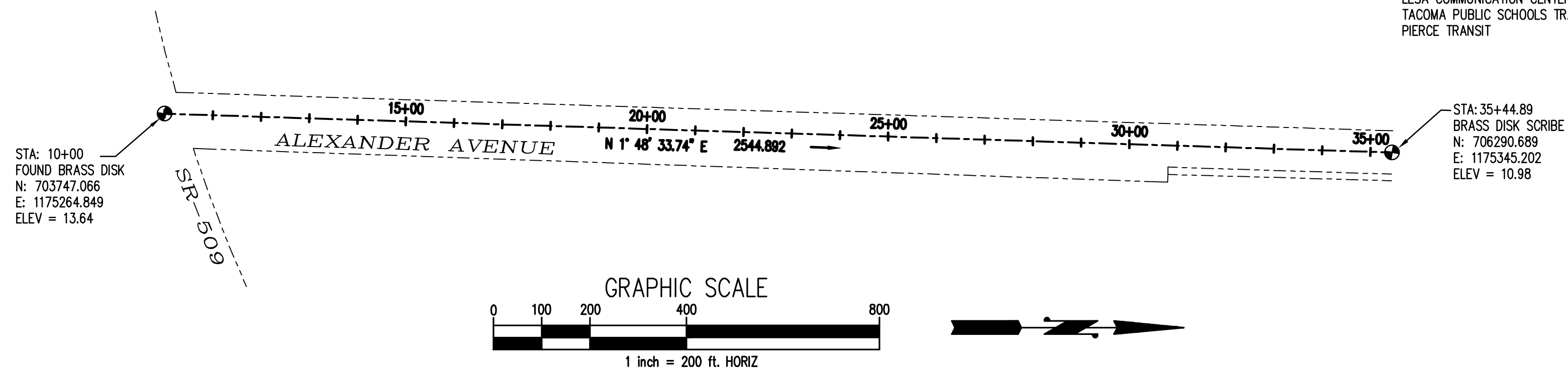
BASIS OF BEARINGS FOR THIS SURVEY IS THE CITY OF TACOMA DATUM, NAD 83(91) WASHINGTON SOUTH ZONE (3602).

SHEET INDEX:

- COVER SHEET
- SURVEY
- SURVEY
- DEMOLITION & TESC PLAN
- DEMOLITION & TESC PLAN
- TESC DETAILS
- PAVING AND UTILITY PLAN
- CHANNELIZATION & SIGNAGE PLAN
- CHANNELIZATION & SIGNAGE PLAN
- STREET SECTIONS & DRIVEWAY DETAILS
- DETAILS
- WORK ORDER GENERAL NOTES

PROJECT CONTACT INFORMATION

UTILITY CONTACTS				
OWNER - PORT OF TACOMA	UTILITY	REGULATORY AGENCY	CONTACT	PHONE NUMBER
PEDRO REYES, PROJECT MANAGER EMAIL: preyes@portoftacoma.com	STORM WATER	CITY OF TACOMA	ENVIRONMENTAL SERVICES	(253) 591-5588
	SANITARY SEWER	CITY OF TACOMA	ENVIRONMENTAL SERVICES	(253) 591-5588
	POWER	TACOMA POWER	JOHN MARTINSEN	(253) 502-8659
	WATER	TACOMA WATER	KAREN GERKEN	(253) 502-8736
ENGINEER - KPFF CONSULTING ENGINEERS STEVEN KINGSLEY, PROJECT MANAGER PHONE: (253) 396-0150 EMAIL: steve.kingsley@kpf.com	GAS	PSE/PILCHUCK	GRANT WHITLEY	(253) 502-8746
	TELEPHONE	QWEST	TERRY BRENTIN	(253) 502-6242
	CABLE	AT&T BROADBAND	JOY BATEMAN	(253) 597-5100
	FIRE PROTECTION	CITY OF TACOMA	MARTIN MCELROY	(253) 845-4867
CONST.	CITY OF TACOMA	CARL ANDERSON	(253) 591-5503	
			LARRY CRISWELL	(253) 591-5787



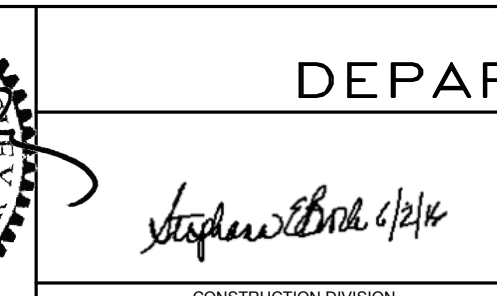
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Tacoma, Washington 98407
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NO	REVISION	DATE	APPD

DATE	SCALE
5/16/2016	AS NOTED
DESIGNED SWK	CHECKED SWK
DRAWN SWK	PROJECT NAME
FIELD BOOKS	DRAWING NAME



CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

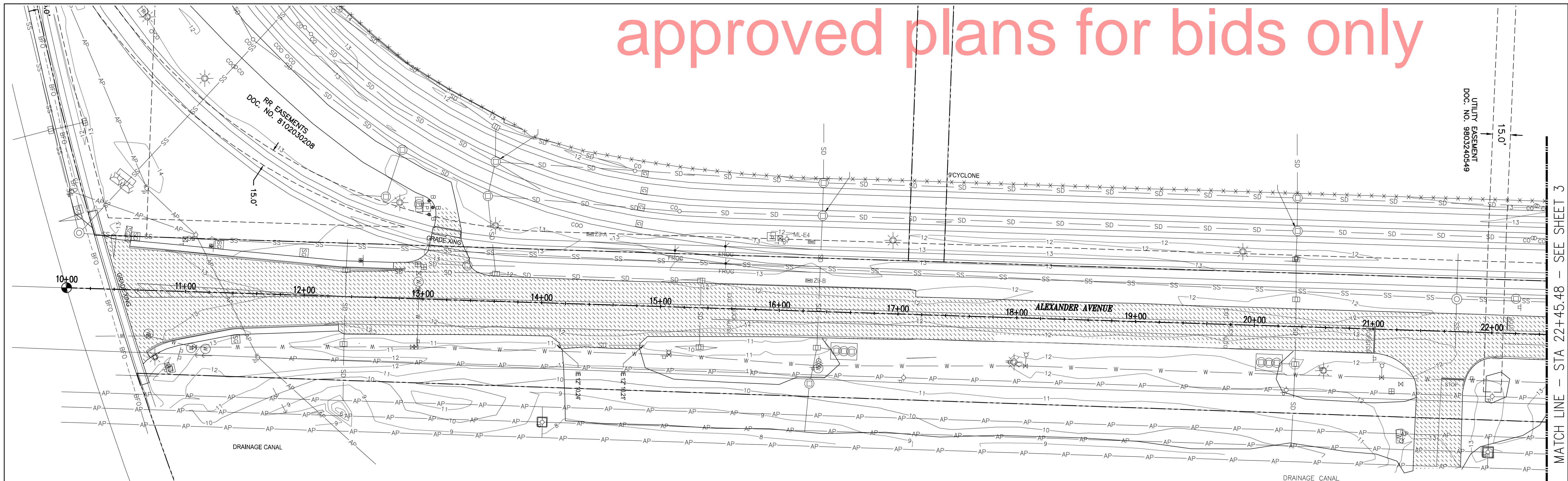
ALEXANDER AVE DRIVEWAY IMPROVEMENTS
4215 SR 509
COVER SHEET

60000041488

SHEET NO.

SHEET 1 OF 12

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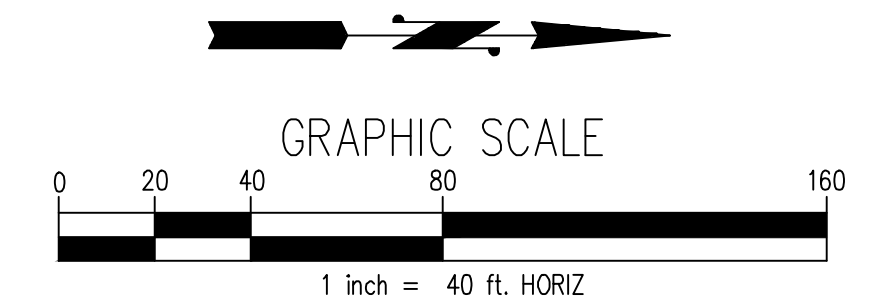
MATCH LINE - STA 22+45.48 - SEE SHEET 3

LEGEND:

—	CURB LINE	o oo	STORM CLEAN OUT
- - -	EDGE OF ASPHALT	(T)	TELECOMMUNICATIONS MANHOLE
- - - BFO	FIBER OPTIC LINE	(T)	TELECOMMUNICATIONS VAULT
- - - BP	ELECTRICAL LINE	(T)	TELECOMMUNICATIONS RISER
- - - BT	TELECOMMUNICATIONS LINE	(T)	TRAFFIC SIGNAL BOX
SD	STORM LINE	(T)	TRAFFIC SIGNAL CABINET
SS	SANITARY SEWER LINE	(T)	TRAFFIC CONTROL SIGNAL ARM
W	WATER LINE	(T)	WATER METER
—	GAS LINE	(T)	FIRE HYDRANT
X X	CYCLONE FENCE LINE	(T)	WATER VAULT
AP	OVERHEAD UTILITY LINES	(T)	WATER VALVE
+	SIGN	(T)	HOSE BIB
• B	BOLLARD	(T)	FIRE DEPARTMENT CONNECT
(M)	MAILBOX	(T)	POST INDICATOR VALVE
(E)	ELECTRICAL MANHOLE	(T)	TRAIN ID SCANNER
(M)	ELECTRICAL METER	(T)	AEI READER
(R)	ELECTRICAL RISER	(T)	UNKNOWN UTILITY VAULT
(C)	ELECTRICAL CABINET	(T)	DECIDUOUS TREE
(V)	ELECTRICAL VAULT	(T)	-PERIMETER REPRESENTS DRIPLINE
(T)	TRANSFORMER	(T)	CONIFEROUS TREE
↑	GUY ANCHOR	(T)	-PERIMETER REPRESENTS DRIPLINE
↑	GUY POLE	(T)	WIND STOCK FLAG
↑	GROUND FLOOD LIGHT	(T)	RAILROAD GREASEBOX
↑	LIGHT J-BOX	(T)	RAILROAD AUTO SWITCH/NUMBER
↑	OVERHEAD LIGHT	(T)	RAILROAD MANUAL SWITCH/NUMBER
↑	POWER POLE/OVERHEAD LIGHT	(T)	RAILROAD FROG
↑	POWER POLE W/DROP	(T)	RAILROAD SIGN
↑	POWER POLE	(T)	RAILROAD CROSSING SIGNAL
↑	GAS MARKER POST	(T)	
↑	GAS VAULT	(T)	
↑	GAS VALVE	(T)	
↑	SANITARY MANHOLE WITH STRUCTURE	(T)	
↑	STORM MANHOLE WITH STRUCTURE	(T)	
↑	CATCH BASIN/AREA DRAIN	(T)	

NOTES:

- VERTICAL DATUM: CITY OF TACOMA (NGVD 29)
BENCHMARK: 3 INCH BRASS DISK ON MILWAUKEE WAY, SOUTH OF E. 11TH AVENUE.
BENCHMARK NO. 2863
ELEVATION = 12.117'
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WASHINGTON SOUTH ZONE (3602).
- UTILITY LOCATIONS SHOWN ARE PER FIELD LOCATED UTILITY PAINT MARKS & REFERENCE MAPS MADE AVAILABLE BY THE VARIOUS UTILITY PROVIDERS. UNLESS INDICATED, DEPTHS OF UTILITY LINES ARE NOT AVAILABLE. ALL UTILITY LOCATIONS SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- BOUNDARY AND EASEMENTS SHOWN HEREON ARE BASED ON TITLE REPORT NUMBER 0048493-TC BY CHICAGO TITLE INSURANCE COMPANY, EFFECTIVE DATE OF 15 SEPTEMBER 2015.



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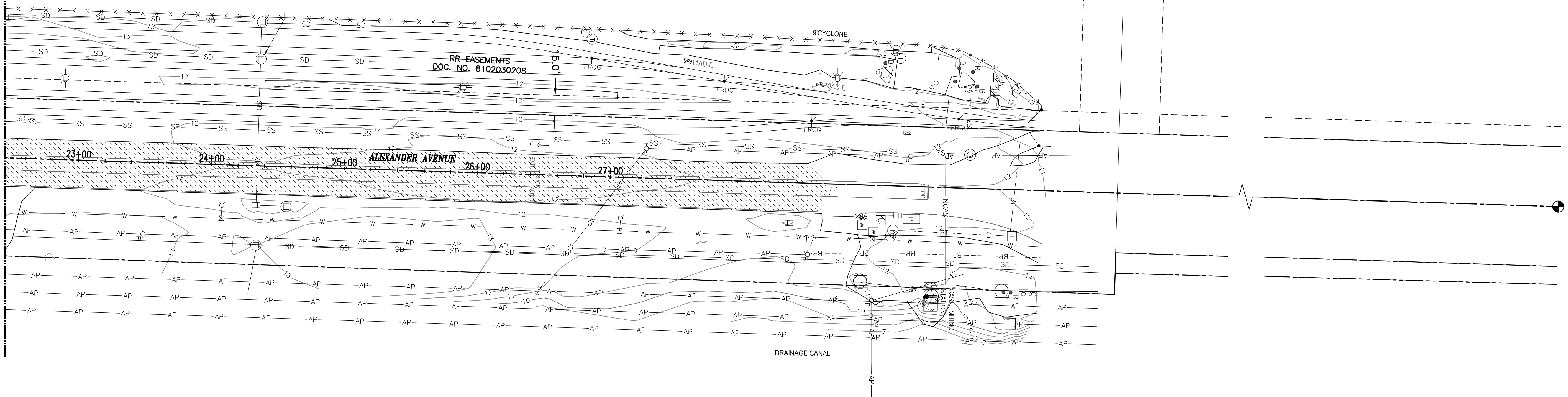


NO	REVISION	DATE	APPD

CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS		ALEXANDER AVE DRIVEWAY IMPROVEMENTS 4215 SR 509 SURVEY	60000041488
BY	DATE		
DESIGNED SWK	5/16/2016	SCALE AS NOTED	
DRAWN SWK		CHECKED SWK	
FIELD BOOKS	DATE	PROJECT NAME	
		DRAWING NAME	

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MATCH LINE - STA 22+45.48 - SEE SHEET 2

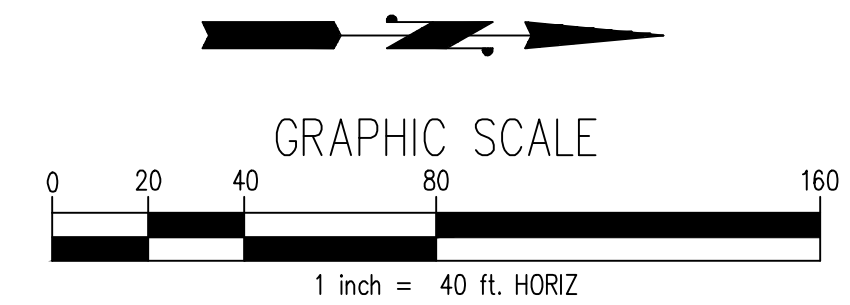


LEGEND:

—	CURB LINE	○	STORM CLEAN OUT
—	EDGE OF ASPHALT	⊕	TELECOMMUNICATIONS MANHOLE
---	BFO - FIBER OPTIC LINE	⊕	TELECOMMUNICATIONS VAULT
---	BP - ELECTRICAL LINE	⊕	TELECOMMUNICATIONS RISER
---	BT - TELECOMMUNICATIONS LINE	⊕	TRAFFIC SIGNAL BOX
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---	W - WATER LINE	⊕	WATER METER
---	G - GAS LINE	⊕	FIRE HYDRANT
---	X - CYCLONE FENCE LINE	⊕	WATER VAULT
---	AP - OVERHEAD UTILITY LINES	⊕	WATER VALVE
⊕	SIGN	⊕	HOSE BIB
⊕	BOLLARD	⊕	FIRE DEPARTMENT CONNECT
⊕	MAILBOX	⊕	POST INDICATOR VALVE
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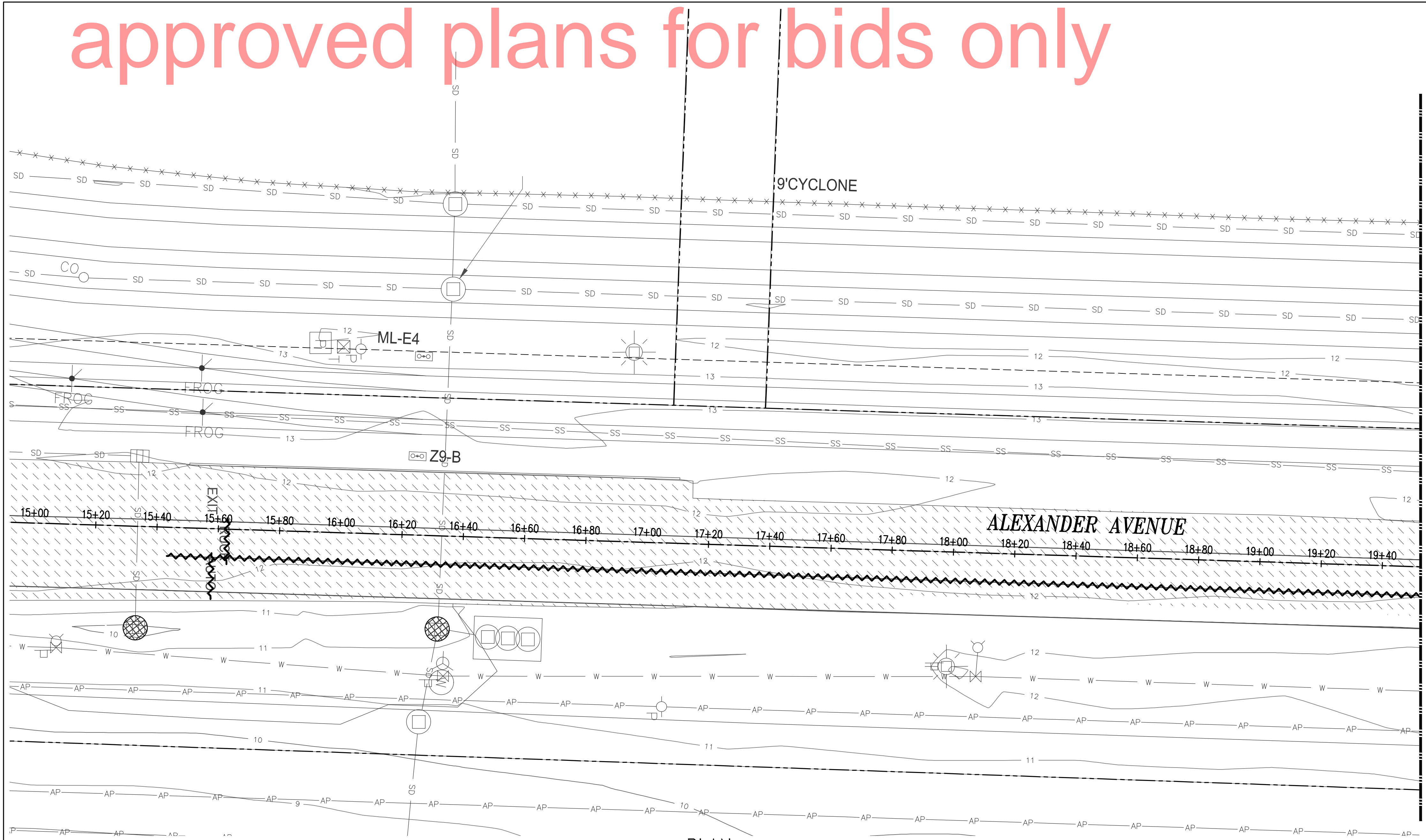
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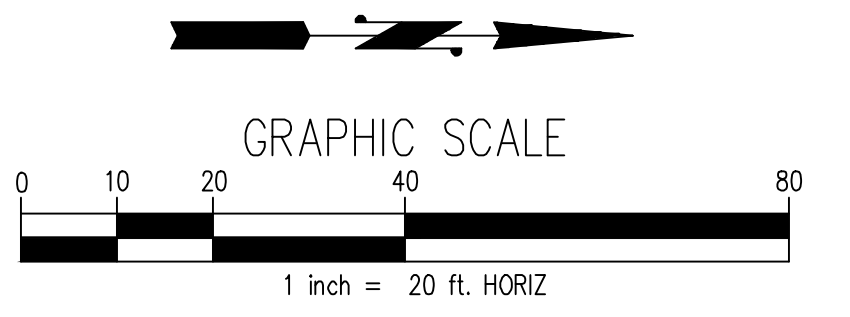
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---	--	---

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MATCH LINE - STA 19+52.11 - SEE SHEET 5

PLAN
SCALE: 1" = 20'



LEGEND

- EXISTING CONCRETE SIDEWALK
- EXISTING ASPHALT ROADWAY
- REMOVE SIDEWALK/DRIVEWAY APPROACH
- REMOVE ASPHALT
- 0" TO 2" ASPHALT GRIND
- REMOVE PAVEMENT MARKING
- REMOVE UTILITY OR STORM LINE
- SAWCUT
- CATCH BASIN INLET PROTECTION. CONTRACTOR TO INSURE ANY CATCH BASIN DOWNSTREAM OF THE PROJECT LIMITS (WITHIN 500') HAS INLET PROTECTION FOR THE DURATION OF CONSTRUCTION.
- STRAW WATTLES

1/6

2/6

DEMOLITION NOTES:

1. EXTENTS OF ASPHALT REMOVAL ARE APPROXIMATE, ACTUAL REMOVAL LIMITS WILL BE DELINEATED BY A CONSTRUCTION DIVISION INSPECTOR
2. REMOVE SIDEWALKS TO NEAREST EXPANSION JOINT BEYOND STATION LISTED, NOT TO EXCEED 10 FEET.
3. CONTRACTOR SHALL COORDINATE ANY RELOCATION OF HYDRANTS AND ASSOCIATED WATER SERVICES WITH TACOMA WATER, INCLUDING PAYMENT OF ASSOCIATED FEES AND WORK COSTS, AND SCHEDULING OF WORK.
4. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
5. SAWCUT OF CURB AND GUTTER, SIDEWALKS AND DRIVEWAYS IS NOT ALLOWED. ALL REMOVAL MUST BE LOCATED AT NEAREST JOINTS. COORDINATE WITH CITY OF TACOMA INSPECTOR.
6. DISTURBED AREAS WHICH ARE RESTORED AS LAWN OR AS VEGETATED AREAS, SHALL BE COVERED WITH TOPSOIL AND MULCH IN ACCORDANCE WITH BEST MANAGEMENT PRACTICE L613 OF THE CITY OF TACOMA 2012 STORMWATER MANAGEMENT MANUAL.
7. SITE FURNISHINGS ENCOUNTERED IN THE PUBLIC ROW (CONCRETE PLANTERS, BIKE RACKS, TRASH CANS, ETC.) & IDENTIFIED ON THIS PLAN SHALL BE OFFERED TO THE OWNER (CITY OF TACOMA) FOR SALVAGE PRIOR TO DISPOSAL. IF DECLINED BY THE OWNER (CITY OF TACOMA), ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR

EROSION & SEDIMENT CONTROL NOTES:

1. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM OR ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
8. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
10. IF DEWATERING IS ANTICIPATED OR ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT A SOURCE CONTROL REPRESENTATIVE WITH THE CITY OF TACOMA AT 253-591-5588.

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NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
	5/16/2016	AS NOTED
DESIGNED	CHECKED	
SWK	SWK	
DRAWN	PROJECT NAME	
SWK	ALEXANDER AVE DRIVEWAY IMPROVEMENTS	
FIELD BOOKS	DRAWING NAME	



Stephen Wade King
5/16/16
32731
REGISTERED PROFESSIONAL ENGINEER

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

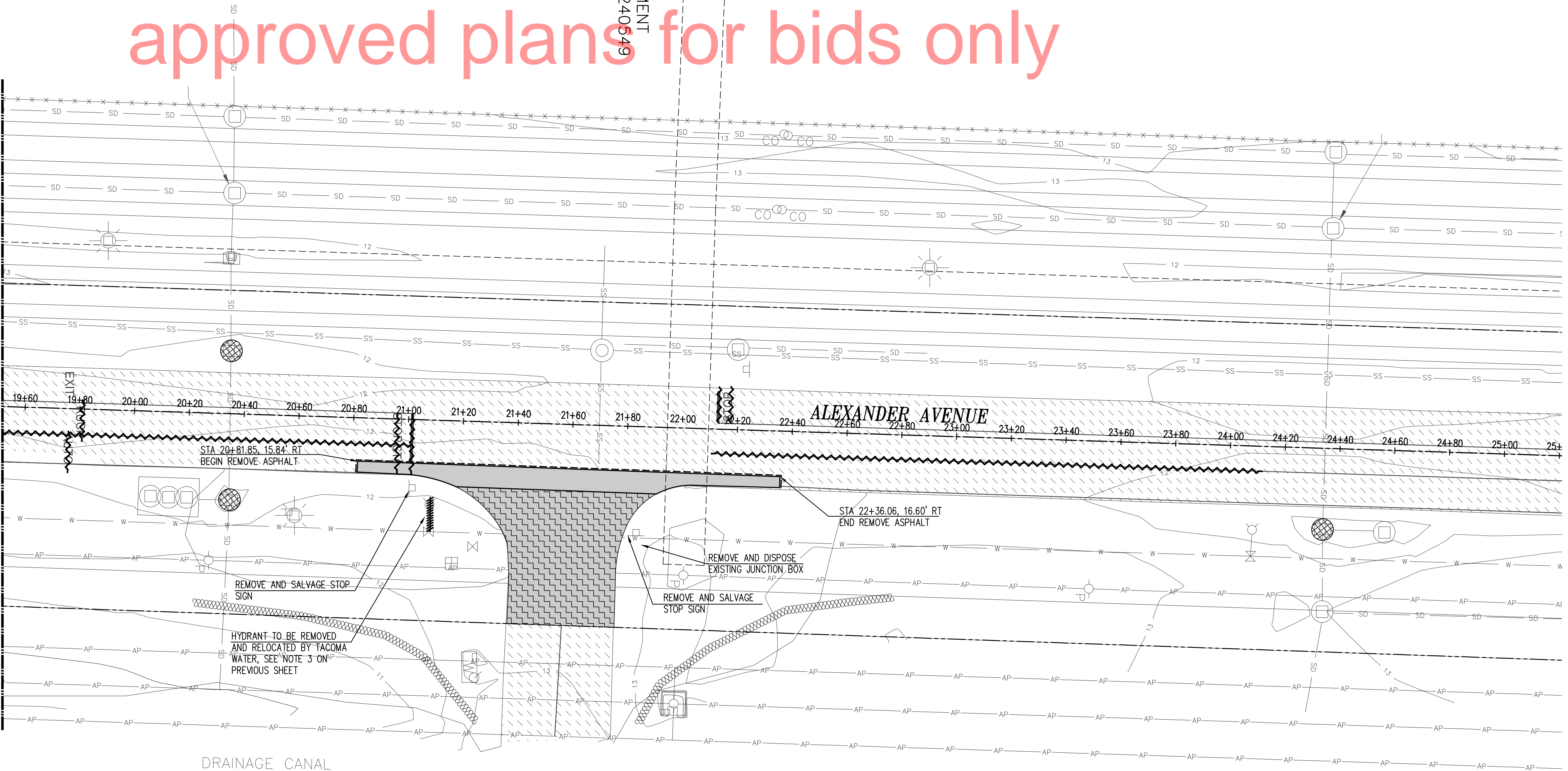
ALEXANDER AVE DRIVEWAY IMPROVEMENTS
4215 SR 509
DEMOLITION AND TESC PLAN

60000041488
SHEET NO.
SHEET 4 OF 12

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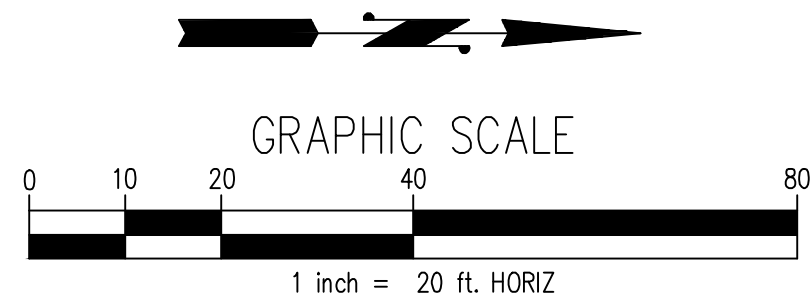
MATCH LINE - STA 19+52.11 - SEE SHEET 4



DRAINAGE CANAL

PLAN

SCALE: 1" = 20'



LEGEND

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- EXISTING ASPHALT ROADWAY
- REMOVE SIDEWALK/DRIVEWAY APPROACH
- REMOVE ASPHALT
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- STRAW WATTLES

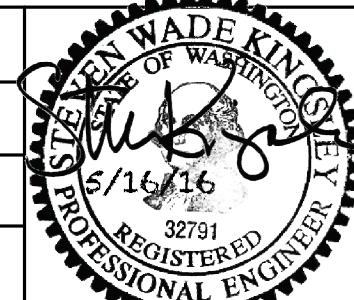
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FINAL CONSTRUCTION CHECKED	DATE 5/16/2016	SCALE AS NOTED
DESIGNED SWK	CHECKED SWK	PROJECT NAME
DRAWN SWK	DATE 5/16/16	
FIELD BOOKS	DRAWING NAME	

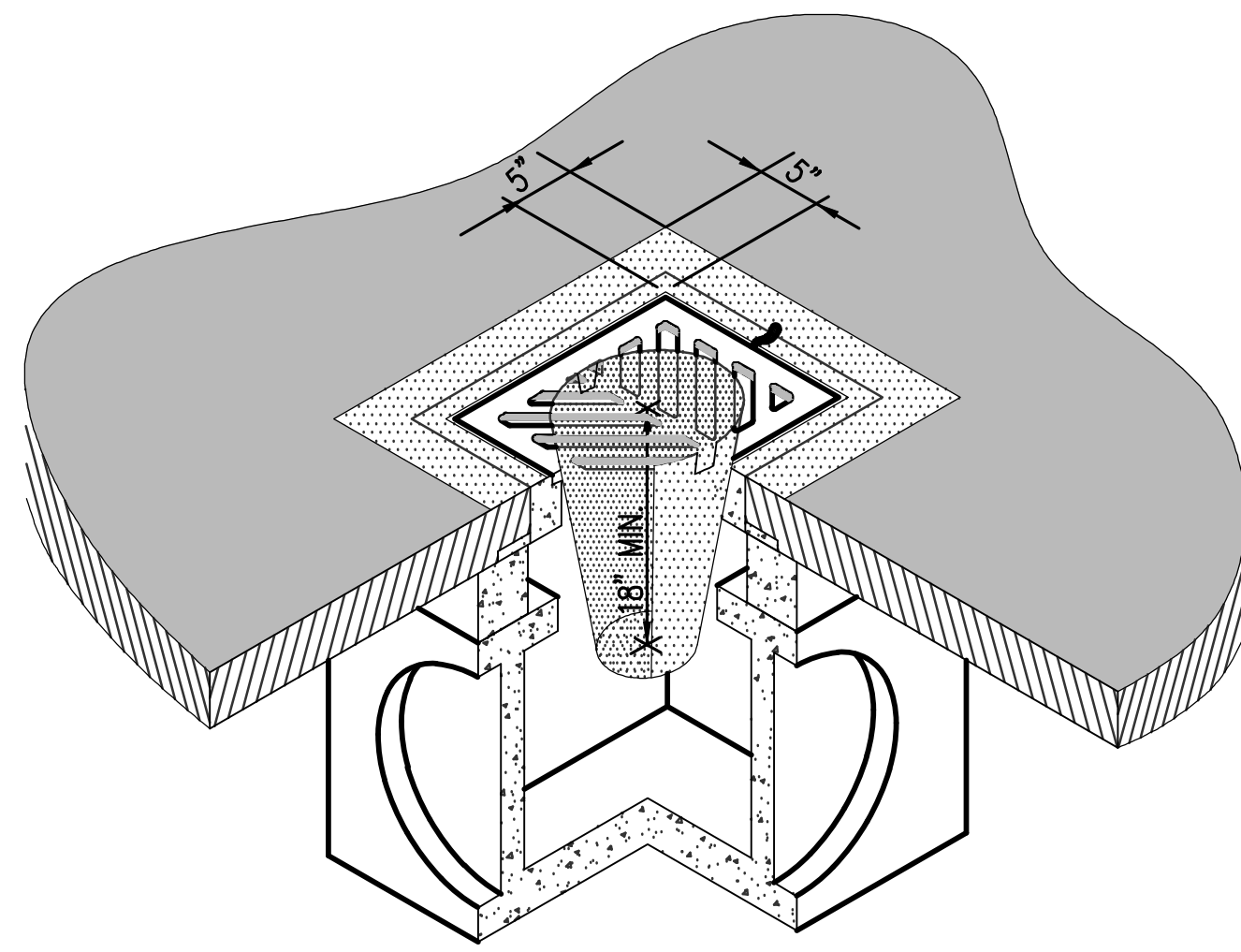


CONSTRUCTION DIVISION

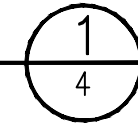
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ALEXANDER AVE DRIVEWAY IMPROVEMENTS
4215 SR 509
DEMOLITION AND TESC PLAN

60000041488
SHEET NO.
SHEET 5 OF 12

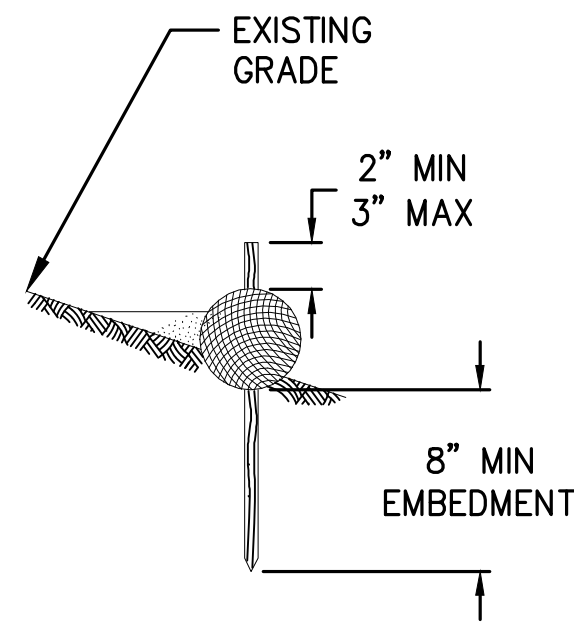


INLET PROTECTION DETAIL
SCALE: NTS

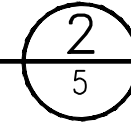


NOTES:

1. INSERT SHALL BE INSTALLED IN ALL OPERATIONAL CATCH BASINS WITHIN 500 FEET OF WORK LIMITS PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
2. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN IT IS 1/3 FULL.
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING INTO APPROPRIATE DISPOSAL LOCATION, AND REINSERTING IT INTO THE CATCH BASIN.

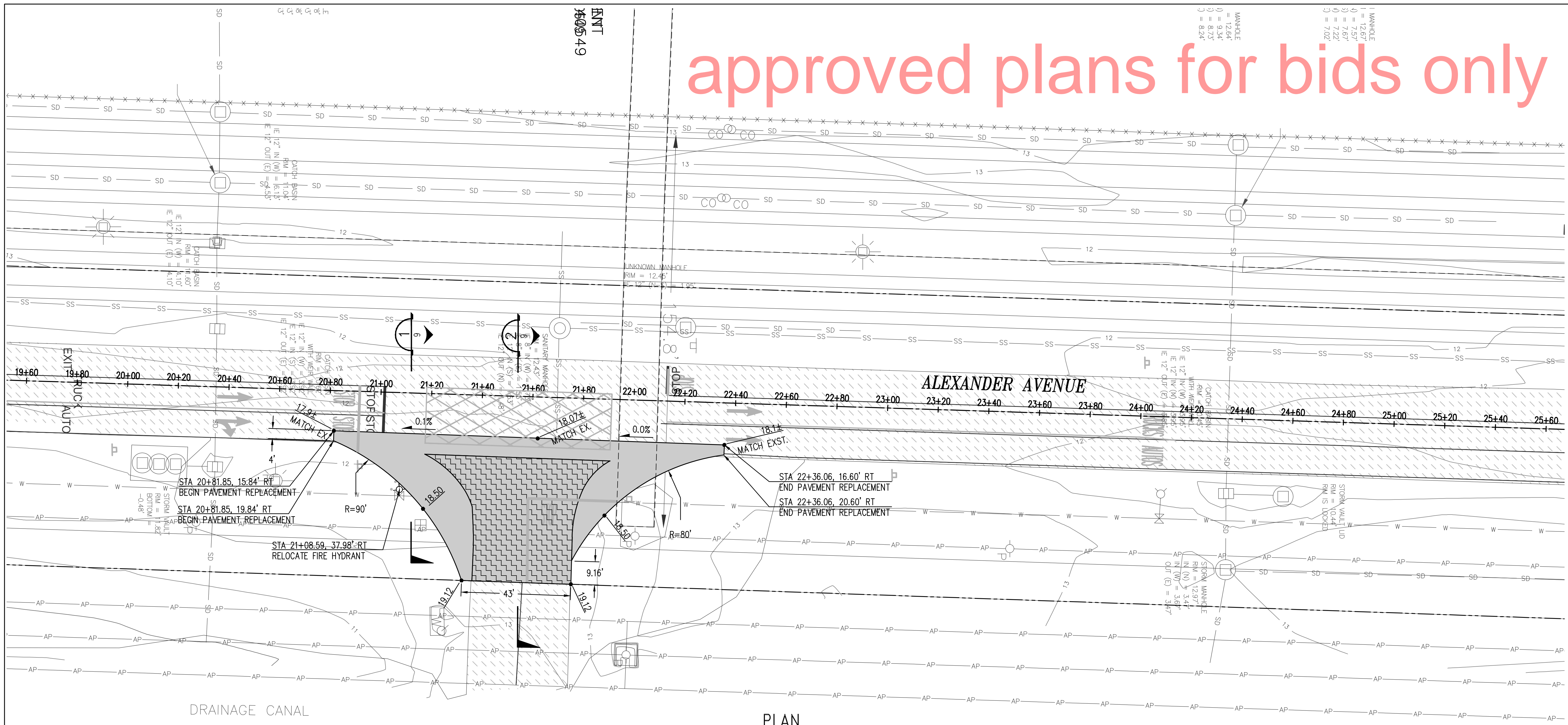


STRAW WATTLE DETAIL
SCALE: NTS



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PLAN

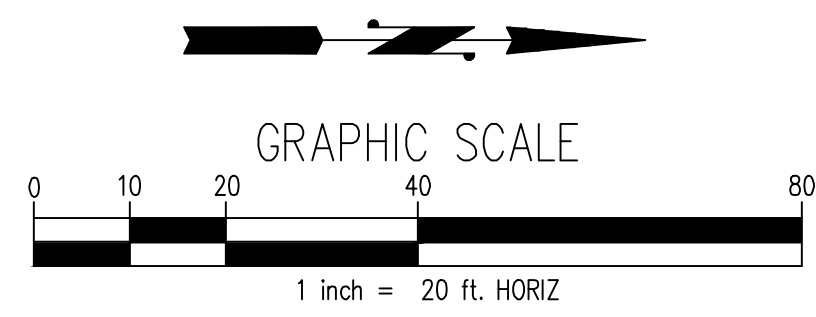
SCALE: 1" = 20'

GENERAL NOTES:

- FOR DRIVEWAY PAVEMENT SECTIONS SEE AND .
- SEE SHEET 4 AND 5 FOR STREET DEMOLITION PLANS.
- DISTURBED AREAS WHICH ARE RESTORED AS LAWN OR AS VEGETATED AREAS, SHALL BE COVERED WITH TOPSOIL AND MULCH IN ACCORDANCE WITH BEST MANAGEMENT PRACTICE L613 OF THE CITY OF TACOMA 2008 SURFACE WATER MANAGEMENT MANUAL.
- EXTENTS OF ROADWAY PAVING ARE APPROXIMATE. ACTUAL PAVING LIMITS WILL BE DELINEATED BY A CONSTRUCTION DIVISION INSPECTOR.
- PIPE SIZE AND COVER DEPTH OF WATER UTILITY MAIN AND SERVICE LINES ARE ASSUMED. ACTUAL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- CONTRACTOR TO MATCH EXISTING GRADE AT SAWCUT LINE.
- SEE SHEETS 8 AND 9 FOR CHANNELIZATION.
- RESTORATION SHALL BE IN ACCORDANCE WITH THE CITY OF TACOMA POLICY AS ADOPTED JUNE 2, 2009. THE CITY INSPECTOR SHALL HAVE FINAL SAY FOR LIMITS OF RESTORATION.

LEGEND

- EXISTING SIDEWALK
- EXISTING ASPHALT ROADWAY
- PROPOSED ASPHALT ROADWAY
- 0" TO 2" ASPHALT GRIND & 4" OVERLAY
- CENTERLINE



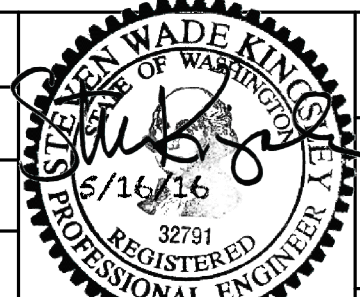
kpff
 2407 North 31st Street, Suite 100
 Tacoma, Washington 98407
 (253) 396-0150 Fax (253) 396-0162

CALL 48 HOURS
 BEFORE YOU DIG
 1-800-424-5555



NO	REVISION	DATE	APPD

FINAL CONSTRUCTION CHECKED	DATE	SCALE
	5/16/2016	AS NOTED
DESIGNED	CHECKED	
SWK	SWK	
DRAWN	PROJECT NAME	
SWK		
FIELD BOOKS	DRAWING NAME	

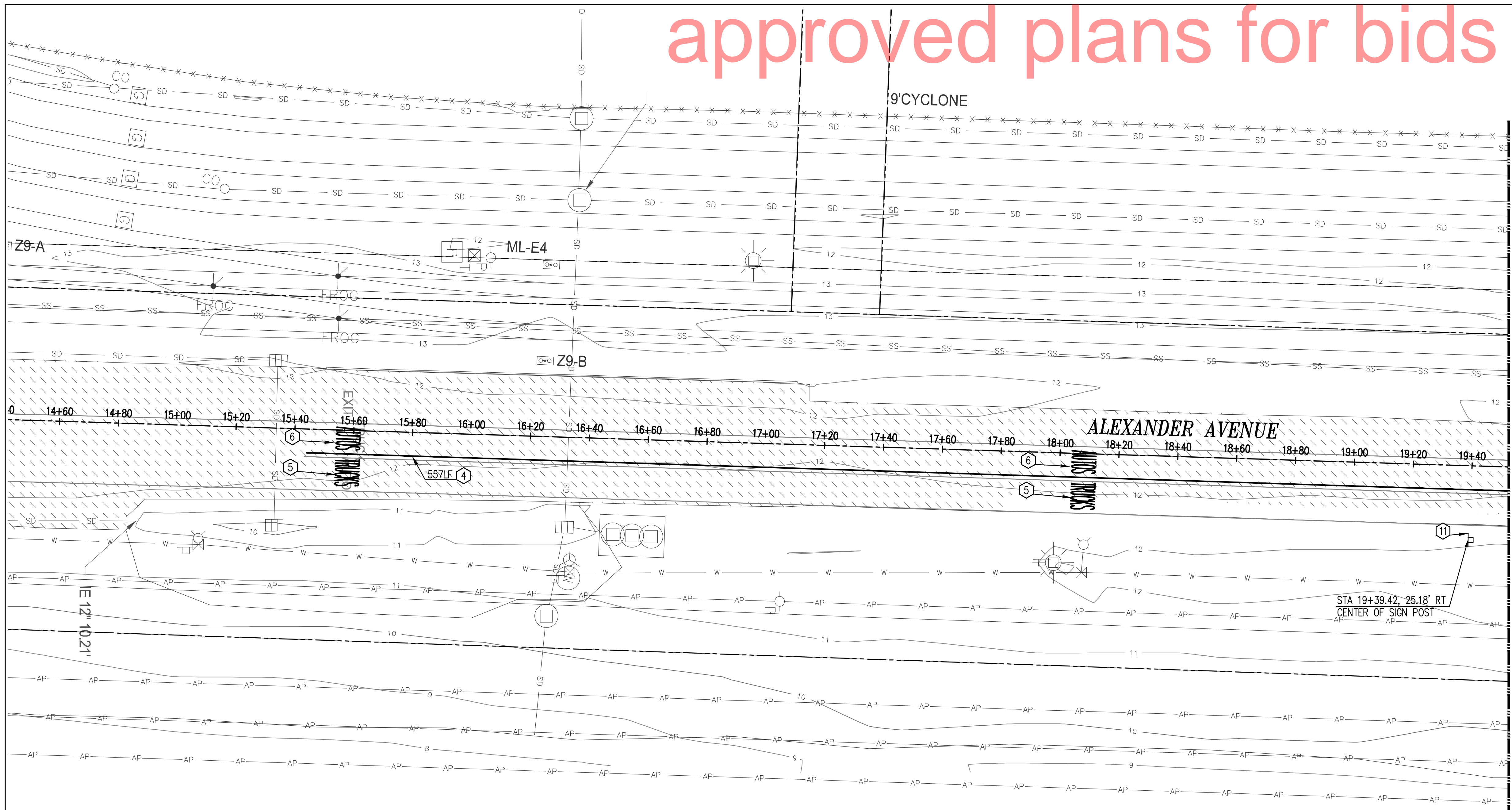


CONSTRUCTION DIVISION

CITY OF TACOMA
 DEPARTMENT OF PUBLIC WORKS
 ALEXANDER AVE DRIVEWAY IMPROVEMENTS
 4215 SR 509
 PAVING AND UTILITY PLAN

60000041488
 SHEET NO.
 SHEET 7 OF 12

approved plans for bids only



MATCH LINE - STA 19+52.11 - SEE SHEET 8

KEY NOTES:

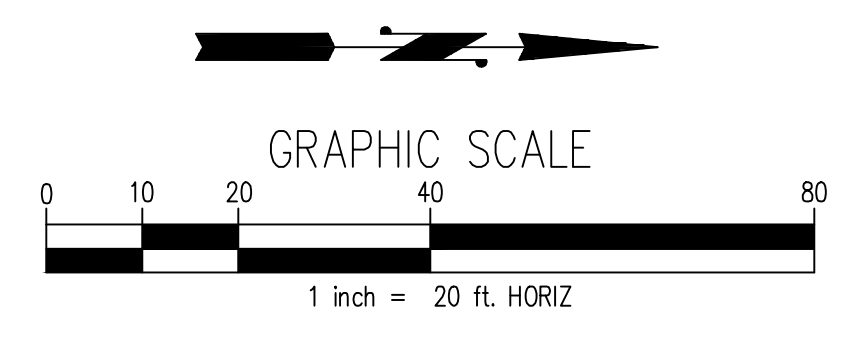
- ① KEEP CLEAR MARKING - 6-INCH SOLID WHITE BOX WITH 6-INCH SOLID WHITE CROSSHATCH THERMOPLASTIC LINES AT 3 FEET ON CENTER
- ② 12" THERMOPLASTIC STOP BAR
- ③ 8' THERMOPLASTIC HIGH LETTER MARKING "STOP"
- ④ 4" WIDE THERMOPLASTIC SOLID WHITE STRIPING
- ⑤ 8' THERMOPLASTIC HIGH LETTER MARKING "TRUCKS"
- ⑥ 8' THERMOPLASTIC HIGH LETTER MARKING "AUTOS"
- ⑦ THERMOPLASTIC STRAIGHT ARROW (1/11)
- ⑧ THERMOPLASTIC STRAIGHT AND RIGHT TURN ARROW COMBINATION (2/11)
- ⑨ INSTALL RELOCATED STOP SIGN
- ⑩ TRUCK/AUTO LANE DELINEATION SIGN (3/11)
- ⑪ STOP AHEAD WARNING SIGN PER MUTCD
- ⑫ LANE CONTROL SIGN (6/11)
- ⑬ 4" WIDE THERMOPLASTIC DOUBLE YELLOW STRIPING
- ⑭ 4" WIDE THERMOPLASTIC WHITE SKIP STRIPING

NOTES:

- 1. RESTORATION SHALL BE IN ACCORDANCE WITH THE CITY OF TACOMA POLICY AS ADOPTED JUNE 2, 2009. THE CITY INSPECTOR SHALL HAVE FINAL SAY FOR LIMITS OF RESTORATION.

PLAN

SCALE: 1" = 20'



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Tacoma, Washington 98407
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	5/16/2016	AS NOTED
BY	DESIGNED	CHECKED
	SWK	SWK
DATE	DRAWN	PROJECT NAME
	SWK	
FIELD BOOKS	DRAWING NAME	



Signature
CONSTRUCTION DIVISION

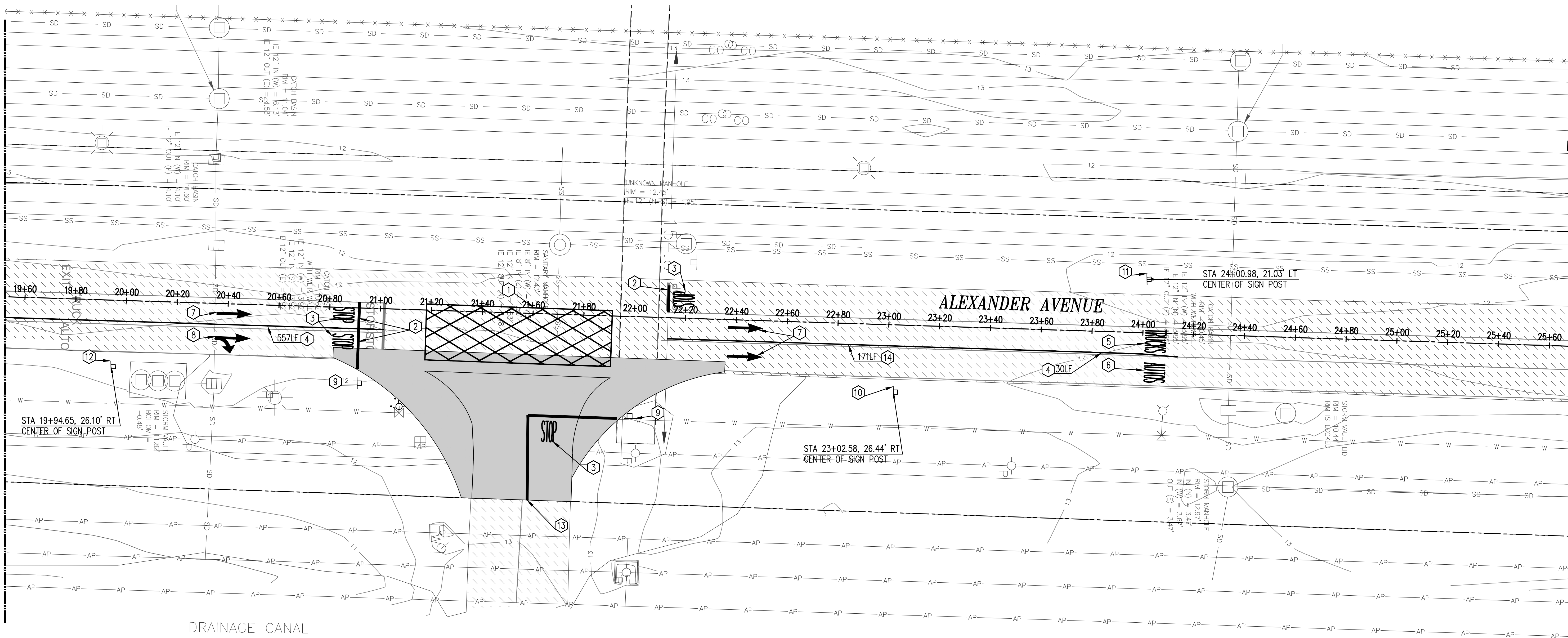
CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

ALEXANDER AVE DRIVEWAY IMPROVEMENTS
4215 SR 509
CHANNELIZATION AND SIGNAGE PLAN

60000041488

SHEET NO.
SHEET 8 OF 12

MATCH LINE - STA 19+52.11 - SEE SHEET 7



PLAN

SCALE: 1" = 20'

KEY NOTES:

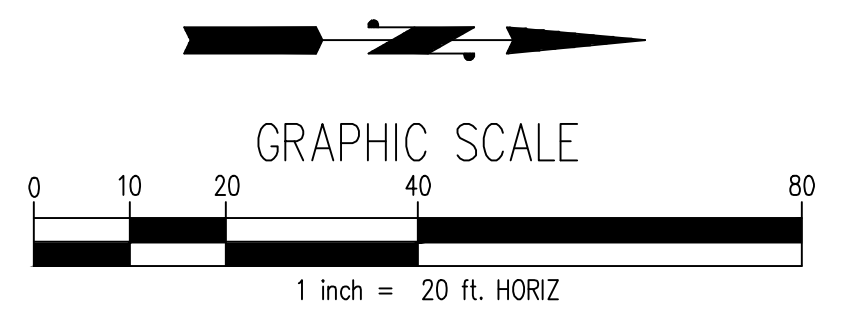
- 1 KEEP CLEAR MARKING - 6-INCH SOLID WHITE BOX WITH 6-INCH SOLID WHITE CROSSHATCH THERMOPLASTIC LINES AT 3 FEET ON CENTER
- 2 12" THERMOPLASTIC STOP BAR
- 3 8' THERMOPLASTIC HIGH LETTER MARKING "STOP"
- 4 4" WIDE THERMOPLASTIC SOLID WHITE STRIPING
- 5 8' THERMOPLASTIC HIGH LETTER MARKING "TRUCKS"
- 6 8' THERMOPLASTIC HIGH LETTER MARKING "AUTOS"
- 7 THERMOPLASTIC STRAIGHT ARROW (1/11)
- 8 THERMOPLASTIC STRAIGHT AND RIGHT TURN ARROW COMBINATION (2/11)
- 9 INSTALL RELOCATED STOP SIGN

KEY NOTES:

- 10 TRUCK/AUTO LANE DELINEATION SIGN (3/11)
- 11 STOP AHEAD WARNING SIGN PER MUTCD
- 12 LANE CONTROL SIGN (6/11)
- 13 4" WIDE THERMOPLASTIC DOUBLE YELLOW STRIPING
- 14 4" WIDE THERMOPLASTIC WHITE SKIP STRIPING

NOTES:

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	5/16/2016	AS NOTED
DESIGNED	CHECKED	
SWK	SWK	
DRAWN	PROJECT NAME	
SWK	ALEXANDER AVE DRIVEWAY IMPROVEMENTS	
DRAWING NAME		

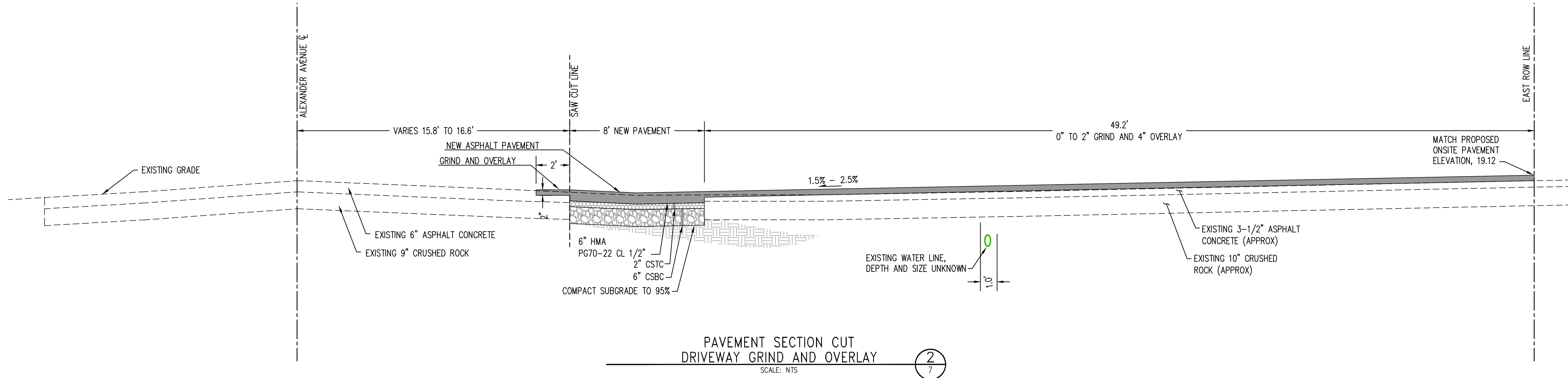
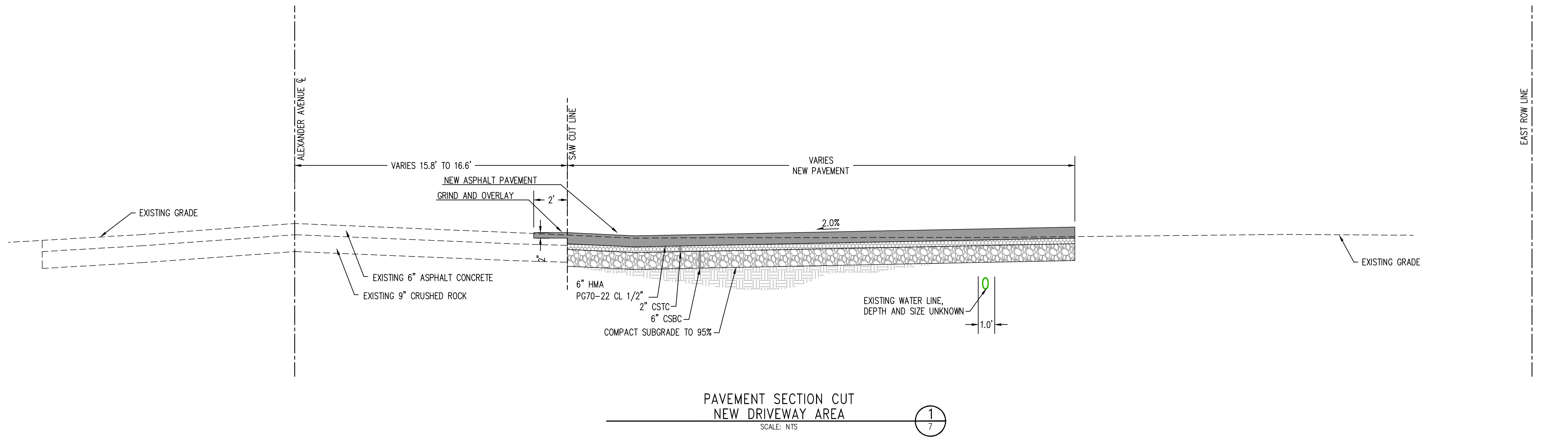


STEPHEN WADE KING
32731
REGISTERED PROFESSIONAL ENGINEER
5/16/2016

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS

ALEXANDER AVE DRIVEWAY IMPROVEMENTS
4215 SR 509
CHANNELIZATION AND SIGNAGE PLAN

60000041488
SHEET NO.
SHEET 9 OF 12



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NOTES:

- RESTORATION SHALL BE IN ACCORDANCE WITH THE CITY OF TACOMA POLICY AS ADOPTED JUNE 2, 2009. THE CITY INSPECTOR SHALL HAVE FINAL SAY FOR LIMITS OF RESTORATION.

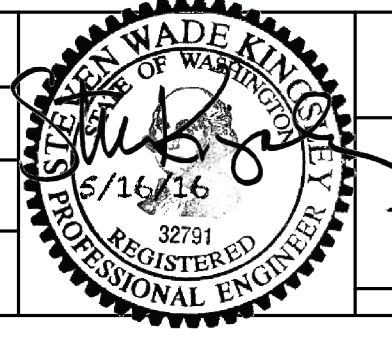
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	5/16/2016	AS NOTED
DESIGNED	CHECKED	
SWK	SWK	
DRAWN	PROJECT NAME	
SWK		
FIELD BOOKS	DRAWING NAME	

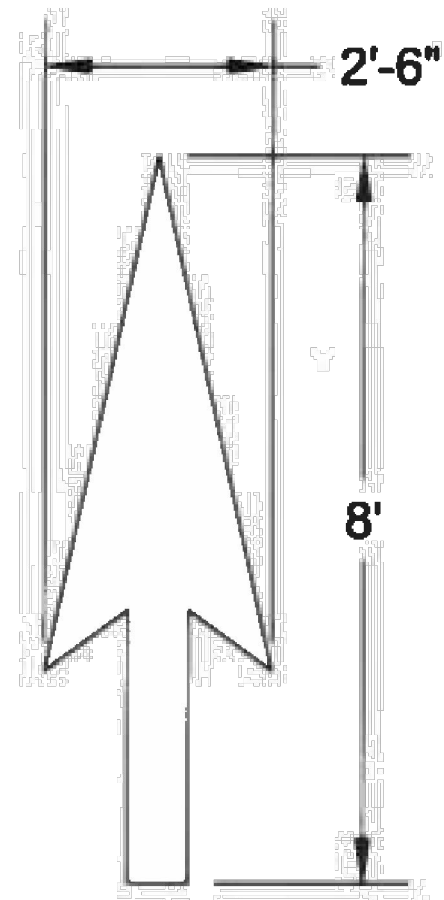


Stephen Wade King
 5/16/16
 32731
 REGISTERED PROFESSIONAL ENGINEER
 CONSTRUCTION DIVISION

CITY OF TACOMA
 DEPARTMENT OF PUBLIC WORKS
 ALEXANDER AVE DRIVEWAY IMPROVEMENTS
 4215 SR 509
 DRIVEWAY SECTIONS

60000041488
 SHEET NO.
 SHEET 10 OF 12

approved plans for bids only

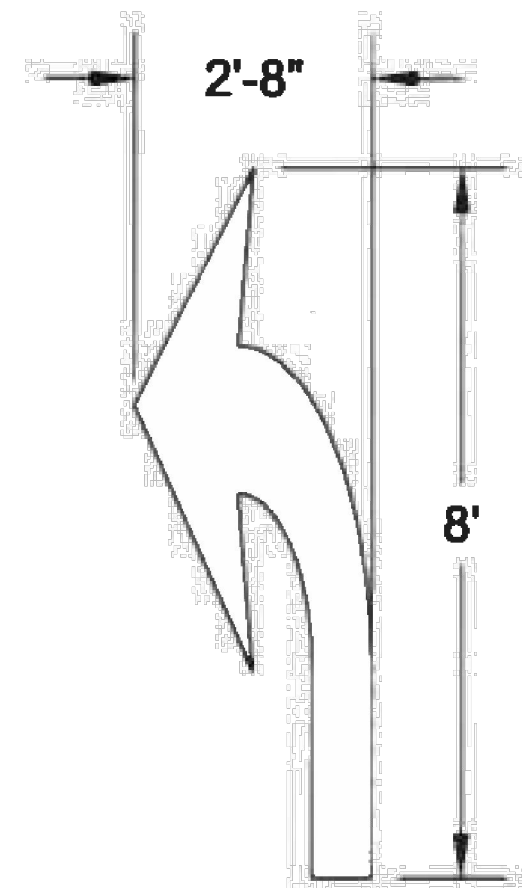


NOTE:
1. TRAFFIC ARROW PER CITY OF TACOMA STANDARD DETAIL CH-10 PAVEMENT WORDS AND ARROWS.

TRAFFIC ARROW DETAIL

SCALE: NTS

1
9

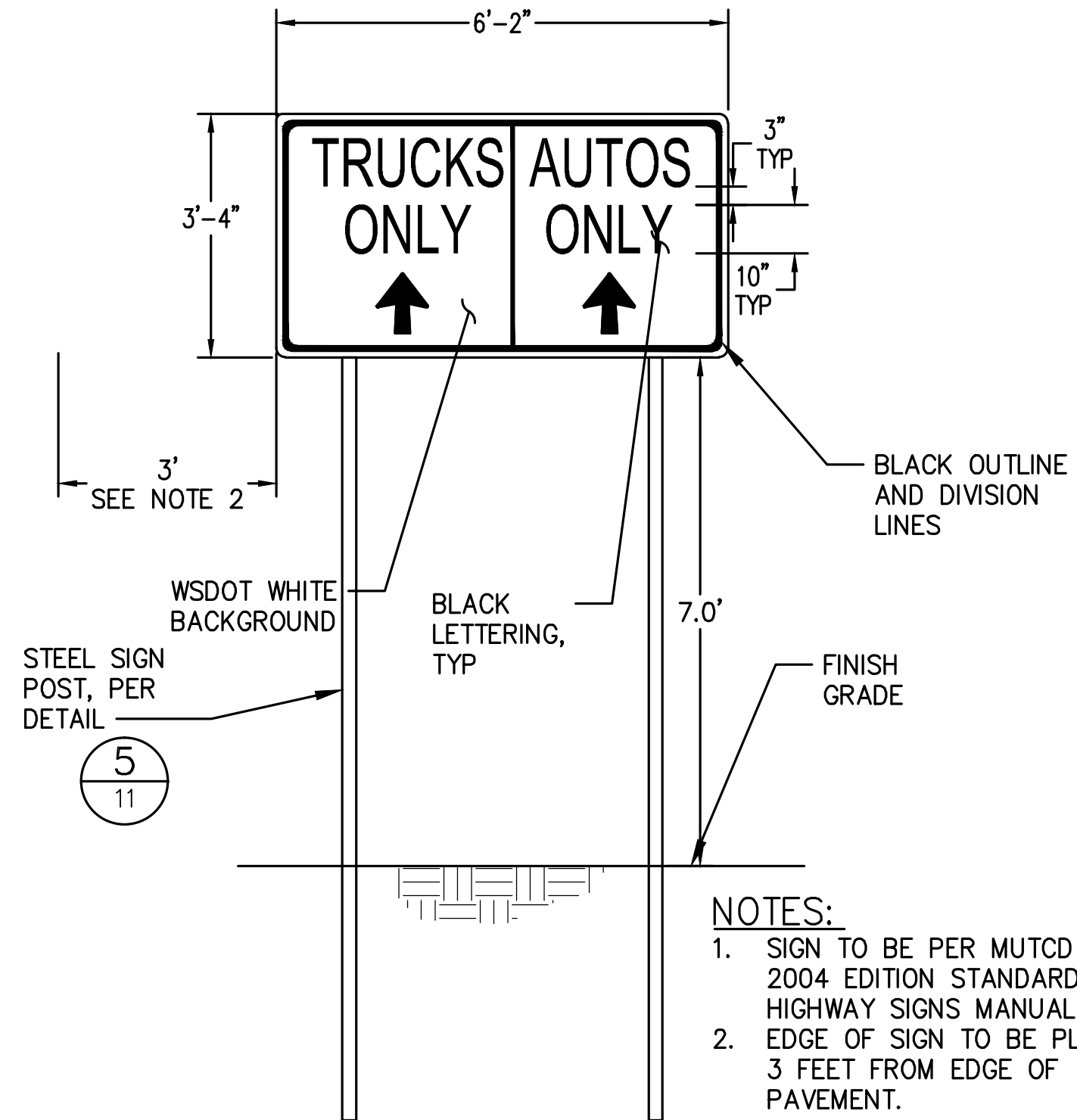


NOTE:
1. TRAFFIC ARROW PER CITY OF TACOMA STANDARD DETAIL CH-10 PAVEMENT WORDS AND ARROWS.
2. ARROWS MAY BE MIRRORED ABOUT THEIR CENTERLINE AS APPLICABLE TO DESIGN.

TRAFFIC TURN ARROW DETAIL

SCALE: NTS

2
9

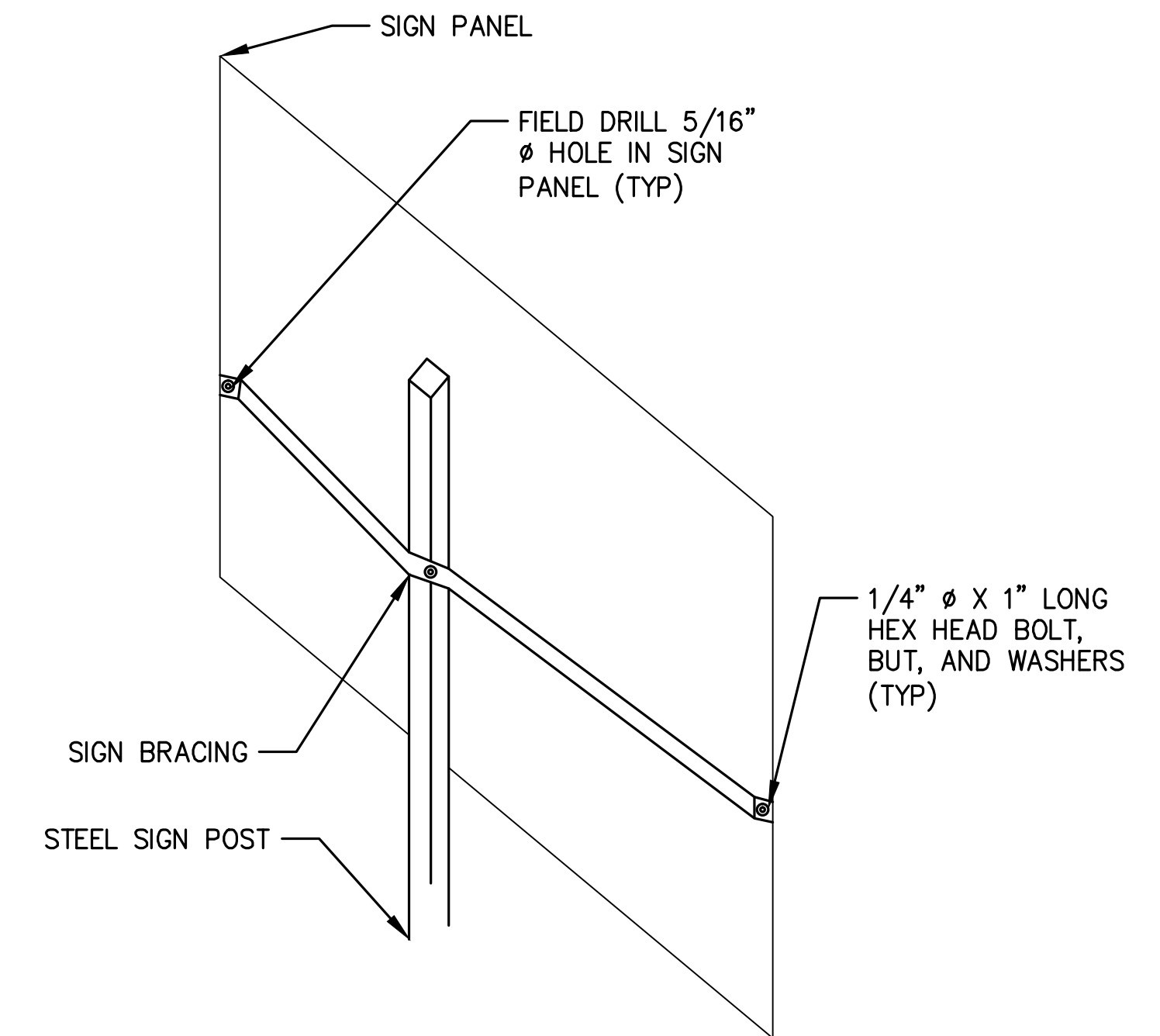


NOTES:
1. SIGN TO BE PER MUTCD AND 2004 EDITION STANDARD HIGHWAY SIGNS MANUAL.
2. EDGE OF SIGN TO BE PLACED 3 FEET FROM EDGE OF PAVEMENT.

AUTO/TRUCK DELINEATION SIGN DETAIL

SCALE: NTS

3
9

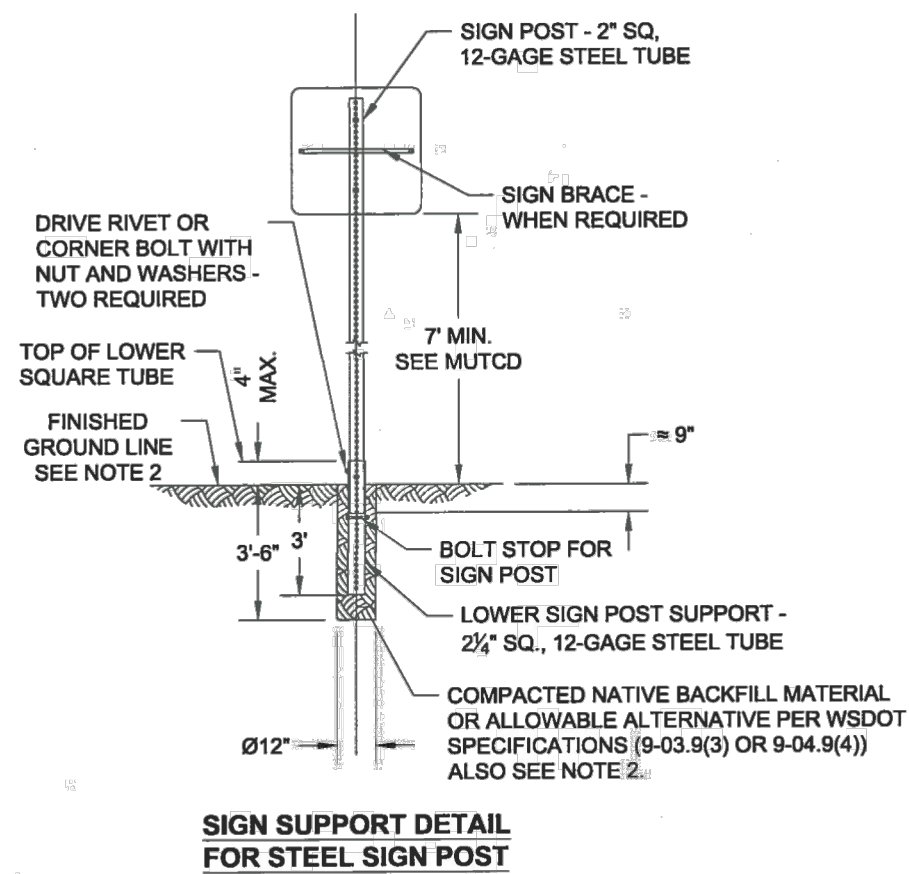


SIGN BRACING DETAIL

SCALE: NTS

4
9

NOTES:
1. Surface mounting of sign posts, especially within traffic islands or medians, is only allowable with special authorization from the city's traffic engineering group. (Exception: Surface mounting of flexible post object markers within islands or medians is permitted).
2. If finished ground line is a hard surface, then compacted native backfill material shall be concrete with the top of foundation being smooth, dense, and uniform to finished ground line.



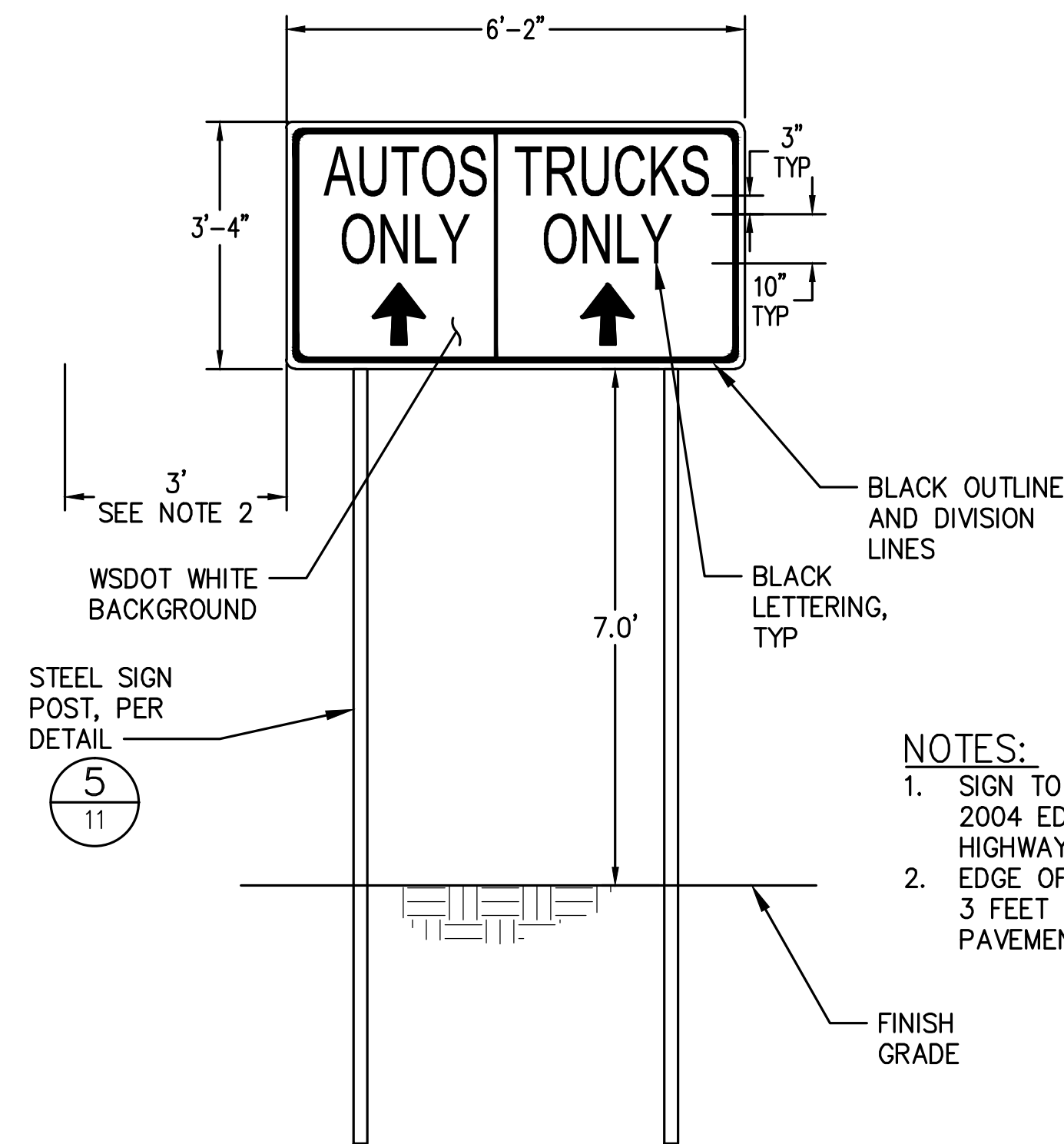
SIGN SUPPORT DETAIL FOR STEEL SIGN POST

NOTE:
1. SIGN POST PER CITY OF TACOMA STANDARD DETAIL SU-34 SIGN POST INSTALLATION.

SIGN POST DETAIL

SCALE: NTS

5
9



NOTES:
1. SIGN TO BE PER MUTCD AND 2004 EDITION STANDARD HIGHWAY SIGNS MANUAL.
2. EDGE OF SIGN TO BE PLACED 3 FEET FROM EDGE OF PAVEMENT.

LANE CONTROL SIGN DETAIL

SCALE: NTS

6
11

RIGHT-OF-WAY PERMITTING GENERAL NOTES

GENERAL

- A. The following special provisions are to be used in conjunction with the City of Tacoma Special Provisions, City of Tacoma Standard Plans and City of Tacoma Right-of-Way Design Manual, "2014 Standard Specifications for Road, Bridge and Municipal Construction" and "Standard Plans for Road, Bridge and Municipal Construction" as prepared by the Washington State Department of Transportation (WSDOT).
- B. Any inconsistency between these work order drawings and the 2014 Standard Specifications or the WSDOT Standard Plans shall be resolved by the following order of precedence (e.g., 1 presiding over 2, 3, and so forth):
 1. Approved Work Order Drawings
 2. City of Tacoma Special Provisions, including APWA General Special Provisions, as applicable
 3. City of Tacoma Right-of-Way Design Manual
 4. 2014 Standard Specifications
 5. City of Tacoma Standard Plans
 6. WSDOT Standard Plans
- C. Any revisions to these plans must be reviewed and approved by the City of Tacoma prior to any implementation in the field.
- D. Contractors shall familiarize themselves with the site and shall bring any discrepancies to the attention of the Engineer prior to undertaking the affected work.
- E. Any discrepancy in these drawings, specifications, these notes, and the site conditions shall be reported to the Engineer, who shall correct such discrepancy in writing after reviewing any changes. Any work done by the Contractor after the discovery of such discrepancy shall be done at the Contractor's risk. The Contractor shall verify and coordinate the dimensions among all drawings prior to proceeding with any work.
- F. A pre-construction meeting shall be held at the City of Tacoma with the applicant, contractor, and City Inspectors prior to issuance of a permit.

ADDITIONAL PERMITS

- A. Separate permits are required for on-site work including all retaining walls, grading, and erosion control. Adherence to all conditions of these permits is required as a part of this plan.
- B. Separate permits are required for sidewalk installation as well as curb and gutter removal and driveway construction when constructed at building permit stage.
- C. Separate storm and sanitary sewer connection permits are required for connections to the wastewater or stormwater systems.

UTILITIES

- A. The existing underground utilities shown hereon are based upon existing record drawings and are not guaranteed to be accurate, nor all-inclusive.
- B. All utilities must be verified prior to construction. If the project requires any excavation, the developer/contractor is required to call the Utility Underground Location Center at (800) 424-5555 at least two days before starting such excavation in accordance with RCW 19.122.
- C. It shall be the Contractor's responsibility to protect, in place, all utilities and/or structures whether shown or not shown on this plan. Damage due to the Contractor's operations shall be repaired at the Contractor's expense.

EXCAVATION

- A. If workers enter any trench or other excavation four feet or more in depth that does not meet the open pit requirements of Section 2-09.3(3)B, it shall be shored and cribbed. All trench safety systems shall meet the requirements of the Washington Industrial Safety and Health Act, Chapter 49.17 RCW. The Contractor alone shall be responsible for all worker safety, and neither the City of Tacoma nor the Engineer of record assumes any responsibility.

PAVEMENT PREPARATION / RESTORATION

- A. Additional removal and replacement of pavement may be required to provide proper transition/crown as directed by the City of Tacoma Inspector in the field.
- B. The street sections shown on this plan are designed to be placed upon a firm and unyielding base.
- C. Subgrade compaction shall be tested by a professional geotechnical consultant prior to placing base material.
- D. Pavement restoration shall be constructed in accordance with the City of Tacoma Restoration policy and applicable Standard Plans.
- E. All permanent traffic channelization, such as but not limited to legends, raised pavement markings, paint, and signage, shall be restored to current Tacoma Standards.
- F. Final restoration limits shall be determined in the field by the City of Tacoma Inspector.
- G. Pavement Preparation and Restoration shall meet all applicable requirements of City of Tacoma Right-of-Way Design Manual Chapter 4 Sections 5.4 and 5.5.

PERMEABLE PAVEMENTS

- A. Permeable Pavements including pavers, porous asphalt and pervious concrete may be approved for use within the right of way.
- B. Installation shall be in accordance with the approved permit documents and all applicable requirements as outlined in the documents referenced in the GENERAL section above.
- C. Permeable pavers shall be designed and installed in accordance with manufacturer's recommendations, per approved permit drawings and the requirements of the City of Tacoma Right-of-Way Design Manual.

HOT MIX ASPHALT

- A. Standard hot mix asphalt shall be HMA CL 1/2 Inch PG 64-22.
- B. Porous asphalt shall be Class 2^{1/2} PG 70-22ER polymer modified or higher grade.
- C. Mix design shall be based on Standard Plan PD-01-Pavement Design Standards and PD-02 Pavement Design Worksheet.
- D. Section 5-04.3(8)A 'Acceptance Sampling and Testing' of the Standard Specifications is deleted.
- E. All standard hot mix asphalt shall be compacted to a minimum of 92 percent of the maximum density as determined by AASHTO T209. All standard hot mix asphalt utilized shall be considered compactable. The level of compaction attained will be determined as the average of not less than 5 nuclear density gauge tests taken on the day the mix is placed (after completion of the finish rolling) at randomly selected locations within each lot. The quantity represented by each lot will be no greater than a single day's production or approximately 400 tons, whichever is less.
- F. All testing results shall be provided to the City within 48 hours of the test.
- G. Control lots not meeting the minimum density standard shall be removed and replaced with satisfactory material.
- H. In addition to the randomly selected locations for test of the control lot, the City Inspector reserves the right to test any area which appears defective and to require further compaction of areas that fall below acceptable density readings. These additional tests shall not impact the compaction evaluation of the entire control lot.
- I. Hot mix asphalt pavement shall not be placed on any traveled way between October 1 and April 1 without written approval from a Science & Engineering Assistant Division Manager.
- J. No traffic shall be allowed on any newly placed pavement without the approval of the City Inspector.

CONCRETE

- A. Concrete pavement mix design shall be based on Standard Plan PD-01-Pavement Design Standards.
- B. Cold Weather Concrete Work. The following requirements for placing concrete shall be in effect from November 1 to April 1:
 1. The Engineer shall be notified at least 24 hours prior to any concrete placement.
 2. Weather permitting, all concrete placement shall be completed no later than 2:00 p.m. each day.
 3. Where forms have been placed and the subgrade has been subjected to severe frost, no concrete shall be placed until the ground is completely thawed. At that time, the forms shall be adjusted and subgrade repaired as determined by the Engineer.
- C. Curing of concrete shall be in accordance with Section 5-05.3(13) of the Standard Specifications.
- D. The slump for standard concrete used for sidewalks shall not exceed four inches +/- one inch.
- E. Sidewalks and curb ramps shall be constructed in accordance with ADA Standards for Accessible Design, 28 CFR, Part 35 and as supplemented by the Public Works Right of Way Accessibility Guidelines (PROWAG).

SANITARY AND STORM SEWERS

- A. 7-08.3(2)G Joining of Dissimilar Pipe:
Dissimilar pipe shall be joined by use of rigid couplings manufactured by Romac Industries, Inc., or City of Tacoma approved equal.
- B. 7-08.3(2)F Plugs and Connections:
Rigid Couplings, manufactured by Romac Industries, Inc., or City of Tacoma approved equal, shall be used at any pipe joint in which bell and spigot or fused joints are not used. Flexible couplings are not permitted.
- C. Section 7-04 of the Standard Specification is deleted. Storm sewers shall meet all the requirements of sanitary sewers.
- D. Sewers and appurtenances shall be cleaned and tested after backfilling by either exfiltration or low-pressure air method at the option of the Contractor, except where the ground water table is such that the Engineer may require the infiltration test.
- E. All wastewater and stormwater pipes shall be video inspected by City Forces prior to paving where paving occurs over sewers. All other sewers will be video inspected prior to final acceptance.
- F. All abandoned pipes encountered during construction and new stormwater and wastewater stub outs shall be sealed with a watertight pipe plug.
- G. All frames and grates for standard catch basin inlets on this project shall be "vaned" type and shall conform to that shown on WSDOT Standard Plan No. B-30.30-01 and B-30.40-01.
- H. Where existing catch basins are modified, grates may be required to be replaced with vaned grates. Environmental Services will make the final determination based on the condition of the existing grate and structure.
- I. Recycled concrete shall not be used for pipe zone backfill.
- J. New connections to brick manholes may be allowed on a case by case basis. Manhole replacement may be required by the Environmental Services Department based upon the condition of the existing manhole.

MISCELLANEOUS

- A. Any fence or structure replaced and/or relocated shall be maintained to remain functional.
- B. Independent quality assurance sampling and testing will be provided by a certified independent laboratory for all improvements within the right-of-way. All special inspection reports shall be forwarded to the Site Development Group on a monthly basis, and / or as requested by the City of Tacoma inspector.
- C. The Contractor shall only use those hydrants designated by the agency in charge of water distribution and in strict accordance with its requirements for hydrant use, Water applied by the Contractor shall not be from residential sources.

GRADING, EXCAVATION AND EROSION CONTROL NOTES

- A. All work is to be done in accordance with the approved grading plan, soils report, the most current WSDOT Standard Specifications For Road, Bridge And Municipal Construction and the current City of Tacoma Stormwater Management Manual.
 - B. When construction operations are such that debris from the work is deposited on the streets, the Contractor shall immediately remove any deposits or debris which may accumulate on the roadway surface. If the Contractor fails to keep the streets free from deposits and debris resulting from the work, the Contractor shall, upon order of the City of Tacoma Inspector, provide facilities for, and remove all clay, dirt, or other deposits from the tires or between wheels before trucks or other equipment will be allowed to travel over paved streets. Should the Contractor fail or refuse to clean the streets in question, or the trucks or equipment in question, the City of Tacoma Inspector may order the work suspended at the Contractor's risk until compliance with the Contractor's obligations is assured, or the City of Tacoma Inspector may order the streets in question cleaned by others and such costs incurred by the City in achieving compliance with these requirements, including cleaning of the streets, shall be deducted from the work order account.
 - C. The Contractor shall protect existing drainage structures using acceptable methods and materials as shown on this plan. If the methods and materials as shown on this plan are not adequate, the City of Tacoma Inspector may require additional/alternative methods for erosion control and/or protection of existing drainage structures. Additional or alternative methods shall be submitted by the design engineer and accepted by the City of Tacoma Inspector. Any damage caused to the City of Tacoma stormwater system as a result of the work outlined on this plan shall be the sole responsibility of the Contractor. Resolving said damage may include, but not be limited to, the cleaning of the drainage system in question by the Contractor.
 - D. Watering provisions when applicable must be in place to prevent dust from becoming air borne. Violation of this condition will result in a stop work order until corrected.
 - E. Fill that will support a street section or other structures shall be placed under the inspection of a Washington State licensed Geotechnical Engineer. Soil to be placed shall be tested and compacted to 95 percent of its maximum density. Engineer shall document existing site conditions, soil and its placement and allowable bearing capacity submitted. Standard requirements for cuts and fill are contained in the WSDOT Standard Specifications For Road, Bridges, and Municipal Construction.
 - F. A stormwater pollution prevention plan (SWPPP) is required for all work order projects. The plan must be in accordance with the current City Tacoma Stormwater Management Manual.
- HYDROSEEDING
- A. All areas that are cleared and grubbed, graded, excavated or filled are subject to stabilization. Any of these areas that are left unpaved or unlandscaped shall be hydroseeded or otherwise fully stabilized under the direction and approval of the Construction Inspector.
 - B. Hydroseeding may occur only during the periods of April 1 through May 31 or September 1 through October 15. Hydroseeding may be allowed during the months of June through August if irrigation is provided.
 - C. Monitor and maintain hydroseeded areas throughout the winter wet season to ensure that no erosion occurs.

EROSION CONTROL MEASURES

- A. Minimum Erosion Control measures shall include:
 1. Construction entrance.
 2. Perimeter erosion/sedimentation control.
 3. Protection of catch basins.
 4. Stabilization of exposed soils.
- B. All erosion control shall be in place prior to clearing. The contractor shall call the City of Tacoma Inspector for initial erosion control inspection prior to start of work, per item F. below.
- C. Erosion control measures shall be maintained at all times to the approval of the City of Tacoma Inspector.
- D. Should temporary erosion and sedimentation control measures, as shown on plans become inadequate, the contractor shall install facilities as necessary to protect adjacent properties and the City of Tacoma drainage system, meeting approval of the City of Tacoma Inspector.
- E. No permits to perform grading, excavation, or filling during the period from October 1st through March 31 shall be issued. EXCEPTION: The City may approve a grading, excavation, or filling plan prepared by a licensed Civil or Geotechnical Engineer which specifically addresses the winter rain season and the associated erosion problems, and issue a permit based on such plan.
- F. Call for inspection of the City of Tacoma Inspector upon completion of:
 1. Staking of clearing limits.
 2. Installation of erosion control and prior to site grading.
 3. Prior to removal of erosion control devices.
- G. All material removed from site shall be placed only at a permitted site. Verify location of destination of material prior to exportation.
- H. Traffic control provisions as approved by the City Traffic Engineer shall be adhered to at all times.
- I. Trees to be removed shall be clearly marked for removal. Trees to be saved shall be fenced with barricade fence at the drip line (outer edge of tree branches) to keep construction vehicles from compacting root zone and killing trees. This fencing shall be maintained until construction ends.
- J. Tree protection measures to be installed with Initial TESC measures and shall be maintained throughout the duration of site work. Refer to City of Tacoma Std. Plans LS-08 through LS-11.

RECORD DRAWINGS CRITERIA FOR ACCEPTANCE OF ALL PRIVATE WORK ORDERS

- A. All revisions to the approved plans must be approved by the City of Tacoma prior to implementation of the changes.
- B. A determination at the time of proposal shall be made whether the revision can be addressed with red line drawings submitted as a part of the record drawings or will require formal submission for approval.
- C. Record drawings shall show the station, offset, and gutter flowline elevations, to nearest 0.01 foot, for all horizontal and vertical roadway alignment changes, at the intersection end of radius points and at the beginning and end of new paving.
- D. Record drawings shall show the station, offset, invert, and rim elevations to the nearest 0.01 foot for all stormwater and wastewater structures. (i.e.: manholes, catch basins, etc.)
- E. After any new stormwater and/or wastewater pipes have been cleaned and the manholes channeled, the main(s) shall be televised for video inspection to provide a record of the constructed conditions and for the wastewater system to verify side sewer connection locations. The City of Tacoma will coordinate this inspection.
- F. The property side ends of the side sewers shall be marked in the field by means of a 2-inch by 4-inch board and locate wire that extends from the flow line of the side sewer to at least 1 foot above the finished lot grade. Record drawings shall show all side sewers and shall locate them by measurements from permanent objects. (i.e.: curb, property corner, etc.) In addition, the depth of all side sewers shall be noted on the record drawings and locate board.
- G. Record drawings shall be received and accepted prior to issuing utility connection permits or release of performance bonds.
- H. Record drawings shall show vertical and horizontal datum for survey monuments (existing or new construction) within the limits of the project.
- I. Record drawings shall consist of a clean set of approved work order drawings with all changes noted above shown in red ink.
- J. Record drawings, including the Engineer's Certification, as applicable, must be submitted within 30 days of substantial completion or City survey crews will collect the necessary data and bill against the work order.

MONUMENT REMOVAL PERMIT PROCESS

"No survey monument shall be removed or destroyed (the physical disturbance or covering of a monument such that the survey point is no longer visible or readily accessible) before a permit is obtained from the Department of Natural Resources (DNR)." WAC 332-120-030(2) states "It shall be the responsibility of those performing construction work or other activity (including road and street resurfacing projects) to adequately search the records and the physical area of the proposed construction work or other activity for the purpose of locating and referencing any known or existing survey monuments." Construction shall not commence until WAC outlined in Chapter 332-120 is complied with.

STAKING REQUIREMENTS

WASTEWATER AND STORMWATER

- A. Clearing stakes if needed.
- B. Stakes every 50 feet plus grade breaks. Try to maintain 12 foot offsets in streets and 8 foot offsets in alleys.
- C. Double offsets at manholes and catch basins (ahead and back stakes at angle points).
- D. Catch basin station shall be to the centerline of the basin. Catch basin offsets shall be to the face of the curb.

RESIDENTIAL STREETS

- A. Clearing stakes as needed.
- B. Slope stakes every 50 feet and grade breaks if cuts or fills exceed 2 feet.
- C. Curb stakes every 50 feet and grade breaks, on 4 foot offset to the face of curb. Curb stakes are set to the top of curb grade (Blue Tops).
- D. Also stake the beginning and end of all approaches.
- E. No centerline of street grades unless the street grade is warped. If street grades are needed, set blue tops for each course.

ARTERIAL STREETS

- A. Clearing stakes as needed.
- B. Slope stakes every 50 feet and grade breaks if cuts or fills exceed 2 feet.
- C. Curb stakes every 50 feet and grade breaks, on 4 foot offset to the face of curb.
- D. Curb stakes are set to the top of curb grade (Blue Tops). Also stake the beginning and end of all approaches.
- E. Stake centerline and quarterline grade every 50 feet and grade breaks at grade for each course.

ALLEYS

- A. Stake both sides every 50 feet and grade breaks, on a 2 foot offset to the edge of paving, with a cut of fill to edge of paving on high side and flow line on low side.

SIDEWALKS

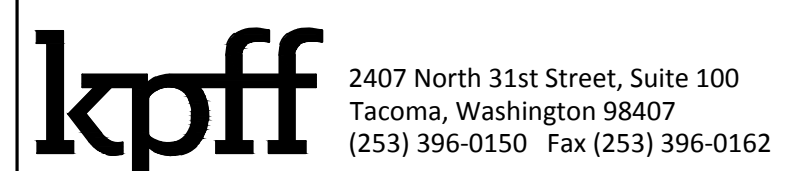
- A. Offsets for walks are set on 50' intervals and grade breaks normally at 2 foot to edge of walk and at edge of walk grade (Blue Tops).
- B. Sidewalk alignment is normally at 5 feet from the face of curb. No walk grades are needed if curbs are built.

HORIZONTAL AND VERTICAL CURVES

- A. Grade stakes must be set every 25 feet and grade breaks with a minimum of 3 stakes for each curve. Radius points on street Returns.

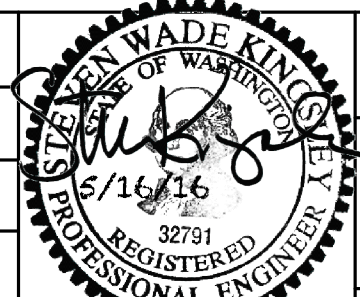
approved plans for bids only

REVISED: 01-07-2016



NO	REVISION	DATE	APPD
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FINAL CONSTRUCTION CHECKED	DATE	SCALE
BY	5/16/2016	AS NOTED
DESIGNED	SWK	CHECKED
DATE	SWK	PROJECT NAME
FIELD BOOKS	SWK	DRAWING NAME



CONSTRUCTION DIVISION

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS
ALEXANDER AVE DRIVEWAY IMPROVEMENTS
4215 SR 509
WORK ORDER GENERAL NOTES

60000041488
SHEET NO.
SHEET 12 OF 12