

# SNOHOMISH COUNTY AIRPORT

## PAINE FIELD EVERETT, WASHINGTON

# PAINE FIELD PASSENGER TERMINAL

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL

NOVEMBER 29, 2016

### PROJECT CONTACTS

OWNER/APPLICANT, AND  
POINT OF CONTACT:  
PROPELLER AIRPORTS  
885 THIRD AVENUE  
20TH FLOOR  
NEW YORK, NY 10022  
(212) 209-3037

CONTACT:  
MARK REICHIN  
mark@propellerairports.com

ENGINEER:  
AECOM  
1111 3RD AVENUE, SUITE 1600  
SEATTLE, WA 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

CONTACT:  
PHIL NEWTON  
phil.newton@aecom.com

### PROPERTY TAX ACCOUNT NUMBER

28041500400100

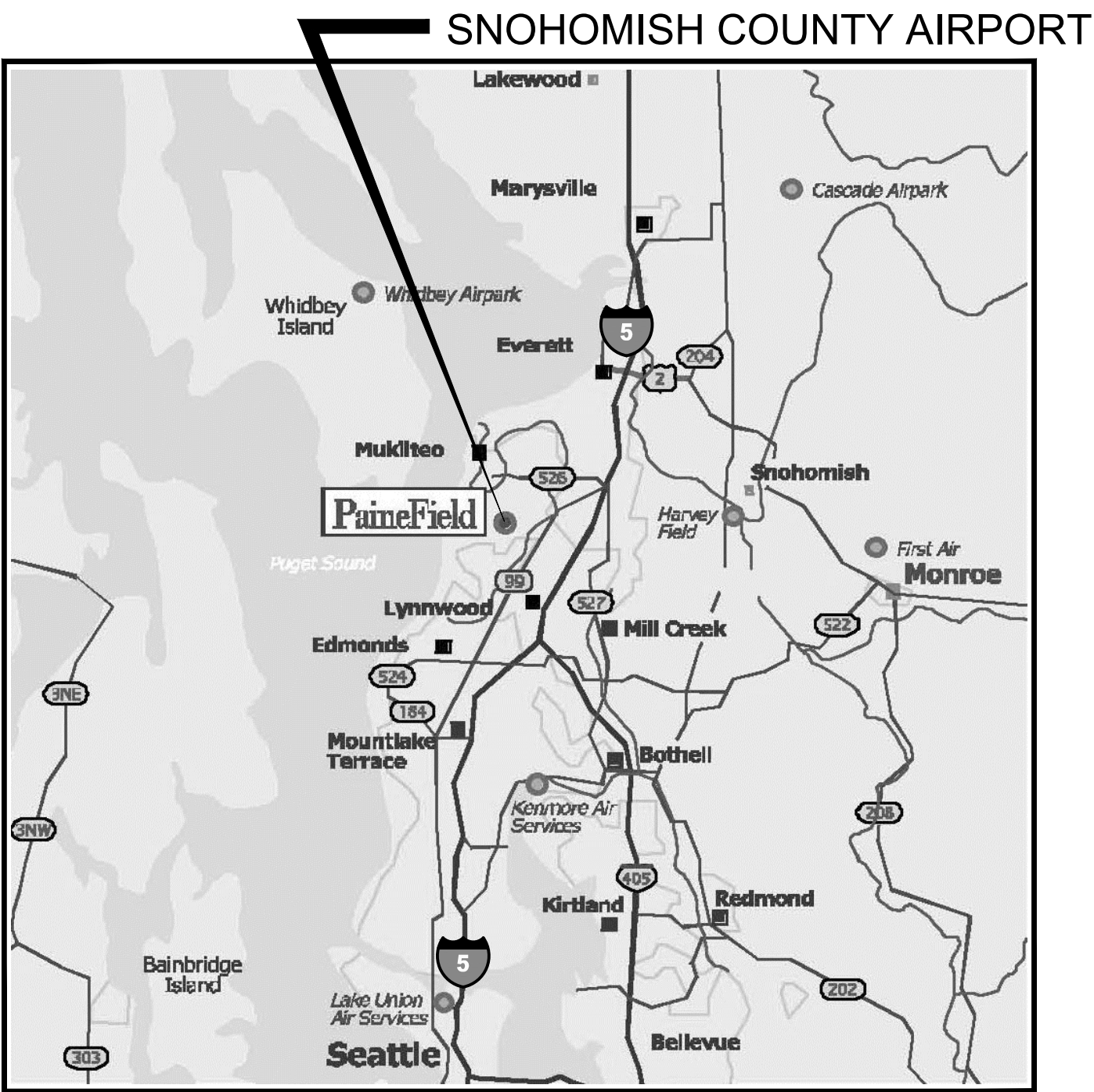
### LEGAL DESCRIPTION

PAINE FIELD AIRPORT - SECTOR 2  
PART OF SECTION 22, T28N, R04E  
WILLAMETTE MERIDIAN

### SITE ADDRESS

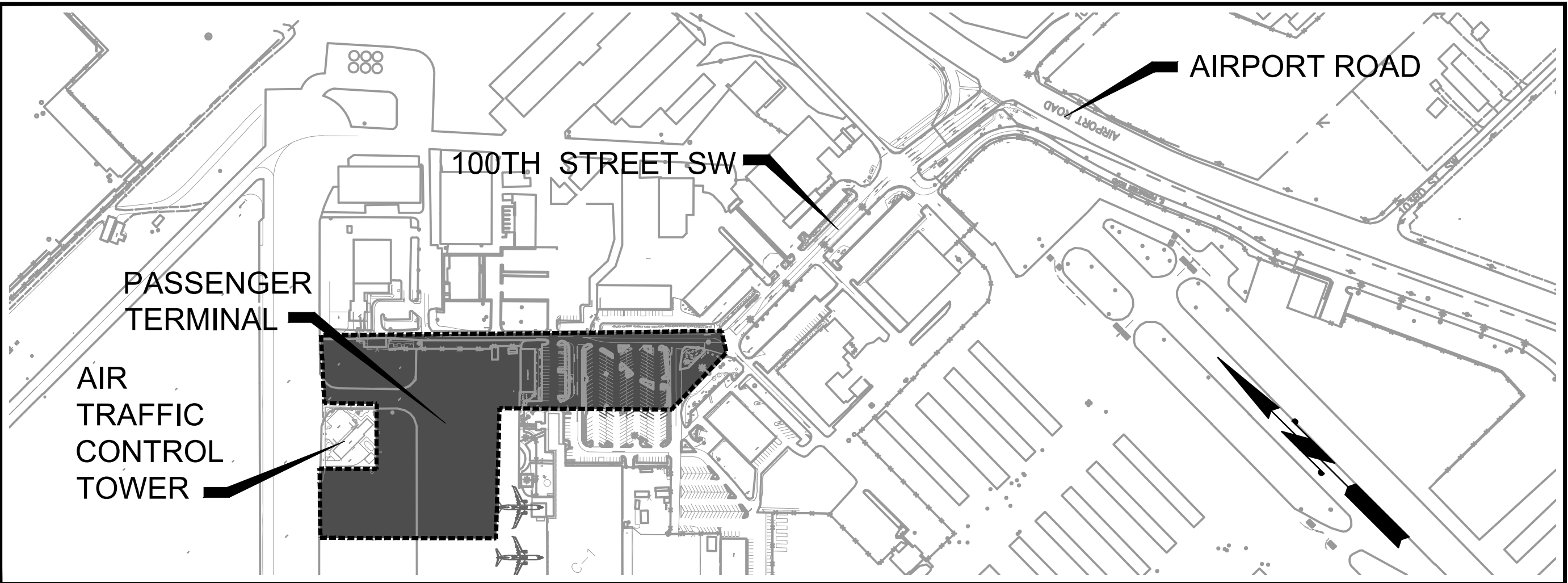
3220 100TH STREET S.W.  
EVERETT, WA 98204-1390

VICINITY MAP



NOT TO SCALE

PROJECT LOCATION MAP

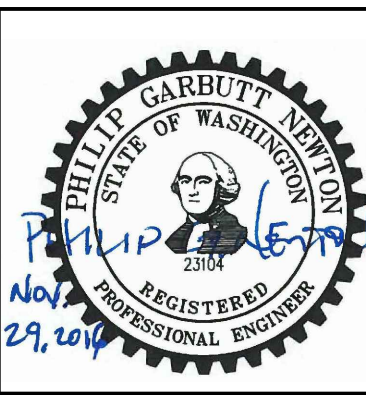


NOT TO SCALE



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_



**AECOM**  
*Airport Services*  
1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

PFN NO.:	16-109244 LDA
SHEET NO.:	G1.0



FILE NAME: C:\Box Sync\PAE\_Possenger Terminal Project\01 CAD\02 Sheets\G1.1 Index of Sheets and Land Disturbance Checklist.dwg PLOTTED: Wednesday, November 30, 2016 -- 2:44pm USER: jason.zhou1

1

1

INDEX TO SHEETS	
SHEET NUMBER	SHEET TITLE
G1.0	TITLE SHEET
G1.1	INDEX OF SHEETS AND LAND DISTURBANCE CHECKLIST
G2.0	GENERAL NOTES
G2.1	ABBREVIATIONS AND LEGEND
G3.0	EXISTING CONDITIONS
G3.1	SURVEY SHEET 1
G3.2	SURVEY SHEET 2
G4.0	CONTRACTOR HAUL ROUTE AND LAYOUT PLAN
G4.1	TEMPORARY FENCING DETAILS
G5.0	OVERALL PROPOSED PLAN
G6.0	TRANSPORTATION DEMAND MANAGEMENT
C1.0	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN
C1.1	TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS
C2.1	DEMOLITION PLAN
C3.0	GEOMETRIC CONTROL PLAN
C4.0	GRADING PLAN
C5.0	PAVING PLAN
C5.1	TYPICAL PAVEMENT SECTIONS
C6.0	DRAINAGE PLAN
C6.1	DRAINAGE PROFILES 1
C6.2	DRAINAGE PROFILES 2
C6.3	DRAINAGE PROFILES 3
C6.4	PIPE AND STRUCTURE SCHEDULE
C6.5	STRUCTURAL ELEMENTS FOR STORM DRAINAGE 1
C6.6	STRUCTURAL ELEMENTS FOR STORM DRAINAGE 2
C6.7	STORM WATER DETAILS - WET VAULT 1
C6.8	STORM WATER DETAILS - WET VAULT 2
C6.9	STORM WATER DETAILS
C6.10	STORM WATER DETAILS - OIL WATER SEPARATOR
C6.11	STORM WATER PUMP STATION
C6.12	STORM WATER OIL COLLECTION CELL
C7.0	WATER, SEWER, GAS PLAN
C7.1	SANITARY SEWER PROFILES
C7.2	SEWER DETAILS
C8.0	PAVEMENT MARKING PLAN
C9.0	FENCE AND EMERGENCY ACCESS PLAN
C9.1	FENCE DETAILS
C10.0	LANDSCAPING PLAN

APPLICABLE CODES & STANDARDS

- SNOHOMISH COUNTY 2016 EDDS MANUAL
- SNOHOMISH COUNTY 2016 DRAINAGE MANUAL
- THE 2012 IBC WITH 2013 WA AMENDMENTS
- THE 2012 UPC WITH 2013 WA AMENDMENTS
- THE 2012 IMC WITH 2013 WA AMENDMENTS
- THE 2012 IFC WITH 2013 WA AMENDMENTS
- INTERNATIONAL BUILDING CODE AS ADOPTED BY WAC 51-50
- INTERNATIONAL MECHANICAL CODE WAC 51-52
- UNIFORM PLUMBING CODE WAC 51-56
- INTERNATIONAL FIRE CODE AS ADOPTED BY WAC 51-54
- OCCUPATIONAL SAFETY AND HEALTH STANDARDS
- WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (WISHA), TITLE 296 WASHINGTON ADMINISTRATIVE CODE (WAC).
- ELECTRICAL STANDARD FOR INDUSTRIAL MACHINERY, NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 79.
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- STORM WATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (SWMM), 2012.
- AMERICAN SOCIETY FOR TESTING AND MATERIALS
- WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, 2014
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
- AMERICAN WATER WORKS ASSOCIATION
- AMERICAN SOCIETY OF MECHANICAL ENGINEERS
- AMERICAN CONCRETE INSTITUTE
- AMERICAN CONCRETE PAVEMENT ASSOCIATION

Items Required on All Plan Sheets

1. Project file number **16-109244 LDA** (placeholder located in large, bold type in the lower right corner)
2. Project title
3. Sheet titles (Examples: "Site Plan," "Targeted Stormwater Site Plan," "Erosion Control")
4. Section, township, and range (located at the top of each sheet)
5. Graphic scale clearly indicated on plan view
6. North arrow clearly indicated on plan view
7. Current engineer's stamp, signature, and date signed, if engineering is required

Please Include:

Items Required on all Plan Cover Sheets

1. Items required on all sheets per the section above in checklist.
2. Owner and applicant's name, address, e-mail address, and phone and fax numbers
3. Contact person or agent's name, address, e-mail address, and phone and fax numbers
4. Engineer's name, address, phone number, and e-mail address
5. Certified Erosion and Sediment Control Lead's (CESCLs) contact information JAMIE SHINSANTO: jamie.shinsanto@aecom.com
6. Vicinity map with north arrow and scale
7. Legal description of project site
8. Site address, if applicable, or driving instructions
9. Property tax account number(s) of subject property and adjacent properties **28041500400100**
10. Sheet index
11. Grading quantities in yards of earth moved (both cut and fill amounts) **CUT - 12,000 CY FILL - 5,000 CY**
12. Amount of new impervious surface in square ft. **53,000 SF (1.2 AC)**
13. Amount of replaced impervious surface in square ft. **77,000 SF (1.8 AC)**
14. Amount of new, plus replaced impervious surface in square ft. **130,000 SF (2.98 AC)**
15. Total proposed impervious surface in square ft. **APPROXIMATELY 341,000 SF (7.83 AC)**
16. Slopes over 33 percent (33% rise/fall per 100 feet) **NONE**
17. Board feet of timber to be harvested **NONE**

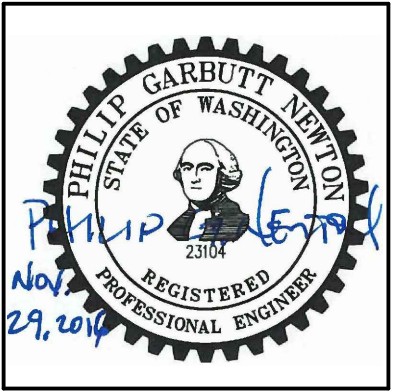
Site Plan View Sheets Shall Depict the Following:

1. Zoning designation(s) and the limits of zones (Title 30 SCC)
2. Shoreline designations and limits of shoreline jurisdiction shall be depicted on the map. (See Chapter 30.44 SCC)
3. Property lines with distances, and, when the legal description depends on subdivision corners, the location of sufficient other controlling monuments (such as section corners, quarter corners, or plat corners) to locate the site.
4. Datum and note on benchmark used, tied to Mean Sea Level (MSL), (NGVD 29) or (NAVD 88) with equation for MSL when required
5. Existing contours (shown by dashed lines) of the land at intervals of no greater than five feet except for flat properties having less than 5% slope the contour may be depicted at intervals of two feet.
6. Proposed contours (shown as solid lines) pursuant to the intervals stated above.
7. Open Space, tree retention and replacement areas, if applicable
8. Limits of land disturbing activity
9. Timber Harvest boundaries and location of any proposed landings. **NONE**
10. Calculation of timber harvest in board feet. **NONE**
11. Location of all areas to be graded, showing areas of cuts, excavation, fill, embankments and stockpile locations (before and after completion of proposed clearing or land disturbing activity)
12. Soils specifications for compaction
13. Proposed rockeries or retaining walls **COMBINED WETVAULT RETAINING WALL**
14. Terracing, keyways, and benches
15. Type of soils and vegetative cover, as well as the location of areas with high erosion hazards using soil survey maps from the Natural Resources Conservation Service or Soil Conservation Service **SOIL TYPE C, "SM" SILTY SANDS, SAND-SILT MIXTURE**
16. Landscape, open space areas, tree and native vegetation retention and replacement areas
17. Locations of all critical areas including required setbacks/buffers for each: **NONE (FOR ALL BELOW)**
18. Wetlands and fish & wildlife habitat conservation areas within 300 feet of the site (SCC 30.62A.130);
19. Geologically hazardous areas on or within 200 feet of the site (SCC 30.62B.130);
20. Location, size, and type of all aquifer recharge areas on the subject property (SCC 30.62C.130)
21. Flood hazard areas and Community Panel number of the Flood Insurance Rate Map
22. Location of all existing native growth protection areas (NGPAs) or native growth protection areas easements (NGPAEs), and proposed critical area protection areas (CAPAs) (see SCC 30.62A.160), and required open space areas, tracts or easements, if applicable
23. Location of critical aquifer recharge areas (CARA) when present on the site.
24. Location of flood hazard areas and identify the Community Panel number of the Flood Insurance Rate Map.
25. Existing drainage systems and pattern(s), (i.e., ditch lines, culverts, catch basins, french drains, and surface drainage or sheet flows) **SHOWN ON EXISTING CONDITIONS SHEET**
26. Location, size, and type of all existing structures, impervious areas, drainage facilities, stormwater facilities, roads, and utilities on the site and adjacent on-and off-site utilities, and setbacks, on-site when applicable.
27. Location, size, and type of all proposed structures, impervious areas, drainage facilities, stormwater facilities, roads, and utilities on the site and adjacent on-and off-site utilities, and setbacks, when applicable.
28. Existing structures within 15 feet of the subject property boundaries (identify structure use) and property boundaries with bearings and distances and ties to controlling corners, or subdivision corners. Show structures farther away when they will be affected by single family residential construction.
29. Location of existing and or proposed wells, drainfields, and drainfield reserve areas, located within 100 feet of the proposed development or redevelopment and applicable setbacks (relates to Snohomish Health District regulations). **NONE**
30. Location of existing and proposed easements.
31. A description of construction specifications, operations, and scheduling pursuant to requirements in the **EDDS**
32. Engineers stamp, signature, and date, when required

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_


DESIGNED:	PGN
	GF
	BO
DRAWN:	AC
	JS
CHECKED:	CT
APPROVED:	PGN




**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**



PROJECT TITLE:	PAINE FIELD PASSENGER TERMINAL	
SHEET TITLE:	INDEX OF SHEETS AND LAND DISTURBANCE CHECKLIST	
SCALE:	AS SHOWN	DATE: NOVEMBER 29, 2016

PFN NO.:  
16-109244 LDA

FAA AIP NO.:

SHEET NO.:  
**G1.1**

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL



FILE NAME: C:\Box Sync\PAE\_Possenger Terminal Project\01\_04\02\_Sheets\G2.0\_General\_Notes.dwg PLOTTED: Wednesday, November 30, 2016 -- 2:44pm USER: jpsn.zhou1

GENERAL

1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS AND ANY RULES, REGULATIONS, STANDARDS OR SPECIFICATIONS REFERENCED THEREIN. THE PROJECT IS SUBJECT TO INSPECTION BY REPRESENTATIVES OF THE SNOHOMISH COUNTY AIRPORT, THE FEDERAL AVIATION ADMINISTRATION (FAA) AND OTHER GOVERNING AGENCIES.
2. CONSTRUCTION WILL OCCUR WITHIN THE AIR OPERATIONS AREA (AOA). THIS IS A CLOSELY MAINTAINED SECURITY AREA WITH RESTRICTED ACCESS. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR ENTERING AND OPERATING IN THIS AREA AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH ALL REQUIREMENTS FOR ENTERING AND OPERATING IN THE AOA. FURTHER, IT WILL REMAIN THE CONTRACTOR'S RESPONSIBILITY TO KEEP ADVISED OF ANY CHANGES IN THESE REQUIREMENTS AND TO ADHERE TO CURRENT REGULATIONS.
3. AS THIS PROJECT REQUIRES CONSTRUCTION ON OR NEAR ACTIVE AIRPORT FACILITIES, ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER ACCEPTABLE TO THE OWNER AND THE FEDERAL AVIATION ADMINISTRATION (FAA).

COORDINATION AND OPERATIONS

1. THE CONTRACTOR SHALL ATTEND WEEKLY COORDINATION MEETINGS TO DISCUSS WORK AREAS, SCHEDULING, SAFETY, ETC. WITH THE ENGINEER, AIRPORT OPERATIONS, AND OTHER APPROPRIATE OFFICIALS.

MATERIALS AND EQUIPMENT

1. ALL MATERIALS AND EQUIPMENT, WHEN NOT IN USE, SHALL BE PLACED IN APPROVED AREAS WHERE THEY WILL NOT CONSTITUTE A HAZARD TO AIRCRAFT OPERATIONS. ALL EQUIPMENT SHALL BE STORED IN A LOWERED CONFIGURATION WHEN NOT IN USE. THE APPROVED STORAGE AREA FOR EQUIPMENT AND MATERIALS IS THE CONTRACTOR'S STAGING AREA. ANY OTHER AREAS TO BE USED FOR STORAGE MUST BE APPROVED BY THE ENGINEER AND AIRPORT OPERATIONS. EQUIPMENT AND STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT RESULTING FROM AIRCRAFT JET BLAST OR WIND CONDITIONS.
2. ALL EXCESS EXCAVATED MATERIAL, UNSUITABLE MATERIAL AND CONSTRUCTION DEBRIS SHALL BE PROMPTLY DISPOSED OF PER THE PLANS AND SPECIFICATIONS.
3. ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE WORK SITE WILL USE A DELIVERY ADDRESS. THE DELIVERY ADDRESS SHALL BE ESTABLISHED AT THE PRECONSTRUCTION CONFERENCE.

CONSTRUCTION LAYOUT

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT. EXISTING AND PROPOSED GRADES ARE SHOWN ON THE DRAWINGS. EXISTING GRADES SHOWN ARE BELIEVED TO BE ACCURATE, BUT NEITHER THE AIRPORT OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE ACCURACY OF THESE GRADES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES WITH THE ELEVATIONS GIVEN ON THE DRAWINGS. FAILURE TO NOTIFY THE ENGINEER SHALL RESULT IN A WAIVER OF THE CONTRACTOR'S RIGHT FOR A CHANGE ORDER. ALL ELEVATIONS ARE BASED UPON THE STATE PLANE DATUM.
2. THE VERTICAL CONTROL ON THIS PROJECT IS TIED TO BENCH MARKS LOCATED ON THE AIRPORT. SEE SHEET G3.1 AND G3.2. ALL EXISTING SURVEY MONUMENTS SHALL BE PROTECTED BY THE CONTRACTOR DURING CONSTRUCTION. ALL MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESET BY A REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

EXISTING UTILITY & NAVIGATIONAL FACILITIES

1. BEFORE ANY WORK IS STARTED ON ANY PHASE OF THIS PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE OWNER, REPRESENTATIVES OF THE CONTRACTOR AND THE AIRPORT SHALL MAKE AN INSPECTION OF THE EXISTING STORM SEWERS, CATCH BASINS, MANHOLES, ELECTRICAL MANHOLES, HANDHOLES AND DUCT BANKS, WHICH ARE TO REMAIN IN SERVICE OR WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION WILL BE KEPT BY THE OWNER. THE CONTRACTOR SHALL PROVIDE TO THE AIRPORT A VIDEO TAPE OR DIGITAL PICTURES OF SURFACE AND SEWER CONDITIONS IN THE PROJECT AREA BEFORE START OF WORK AND UPON COMPLETION OF THE PROJECT.
2. ALL EXISTING FACILITIES, INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES, SHALL BE PROTECTED, MAINTAINED, AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGES IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT ITS SOLE EXPENSE TO THE SATISFACTION OF THE ENGINEER AND AIRPORT OPERATIONS.

CONTRACTOR ACCESS & STORAGE AREAS

1. THE CONTRACTOR'S ACCESS POINTS TO THE SITE SHALL BE AS SHOWN ON THE HAUL ROUTE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL VEHICLES AND PERSONNEL WHO ENTER THROUGH THESE GATES. GATES SHALL BE LOCKED WHEN NOT IN USE.
2. AREAS WILL BE MADE AVAILABLE FOR THE CONTRACTOR'S MOBILIZATION AND STAGING AS SHOWN ON THE HAUL ROUTE. THESE AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF THE PROJECT.
3. ON-SITE EMPLOYEE PARKING SHALL BE ADDRESSED AT THE PRECONSTRUCTION CONFERENCE AND SHALL BE INCLUDED IN THE CONTRACTOR'S STAGING AREA.

CONTRACTOR REQUIREMENTS

1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED FOR THE PERFORMANCE OF THIS CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY ALL PERMIT FEES.
2. THE CONTRACTOR IS TO HAVE ONE PERSON WHO IS A CERTIFIED EROSION CONTROL LEAD PER WASHINGTON STATE DEPARTMENT OF ECOLOGY REQUIREMENTS. THIS PERSON WILL BE RESPONSIBLE FOR UPHOLDING ALL CONDITIONS OF THE AIRPORT'S DOE CONSTRUCTION DISCHARGE PERMIT ASSOCIATED WITH THIS PROJECT AND SHALL PERFORM ALL PERMIT CONDITIONS INCLUDING RECORD KEEPING AND WATER SAMPLING AS REQUIRED BY THE CONSTRUCTION STORMWATER PERMIT AND THE AIRPORT'S STORMWATER POLLUTION PREVENTION PLAN.
3. CONTRACTOR SHALL PROVIDE TESC MEASURES SUCH THAT STORMWATER RUNOFF LEAVING CONSTRUCTION AREA LIMITS SHALL NOT EXCEED 25 NTU (>25 NTU : "DIRTY WATER"). CONTRACTOR SHALL HAVE A PLAN OF ACTION AND MATERIALS ON HAND TO BE ABLE TO PREVENT DIRTY WATER FROM LEAVING THE CONSTRUCTION SITE IF A SUDDEN RAIN EVENT SHOULD OCCUR.
4. ANY FINES, FEE, PENALTIES, DAMAGE ASSESSMENTS AND/OR OTHER FINANCIAL BURDENS AS A RESULT OF CONTRACTOR'S ACTIONS OR NON-ACTION TO COMPLY WITH 2016 STORMWATER MANAGEMENT MANUAL, SNOHOMISH COUNTY CODE AND DEPT OF ECOLOGY NPDES PERMIT REQUIREMENT SHALL BE PAID/REIMBURSED BY THE CONTRACTOR.
5. HYDROSEEDING AND/OR SODDING OF EACH INCREMENTAL COMPLETED CONSTRUCTION AREA AND/OR PHASE SHALL OCCUR WITHIN 7 CALENDAR DAYS OF COMPLETION OF THAT AREA AND/OR PHASE. HYDROSEEDED AND SODDED AREAS SHALL BE PROTECTED FROM FURTHER CONSTRUCTION DAMAGE OR REPLACED AT CONTRACTORS EXPENSE. HYDROSEEDED AREAS SHALL BE WATERED REGULARLY AT CONTRACTORS EXPENSE. ANY AREAS OF PARCHED, DEAD, OR NON-EXISTENT, HYDROSEEDED OR SODDED GRASS AREAS SHALL BE SODDED OR RE-SODDED AT CONTRACTORS EXPENSE. CONSTRUCTION WILL NOT BE CONSIDERED COMPLETE WITHOUT VERDANT GRASS.
6. AFTER SEPTEMBER 10TH ALL DISTURBED EARTH AREAS THAT DO NOT HAVE A STAND OF THICK GRASS SHALL BE PROTECTED AGAINST EROSION BY BMPs ACCEPTABLE TO THE ENGINEER AND OWNER'S CESCL AT THE CONTRACTOR'S EXPENSE. SOD SHALL BE THE PREFERRED BMP.
7. THE CONTRACTOR MUST OBTAIN PROPER PERMITS FOR DELIVERY OF MATERIALS AND EQUIPMENT TO THE SITE. ANY DAMAGE TO OFF-SITE ROADS SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S SOLE EXPENSE.
8. ALL CONTRACTOR'S VEHICLES AND TRAFFIC (UNLESS OTHERWISE AUTHORIZED) SHALL REMAIN WITHIN THE DESIGNATED CONSTRUCTION LIMITS OR HAUL ROUTES.
9. THE CONTRACTOR SHALL CONTROL DUST FROM OPERATIONS TO A LEVEL ACCEPTABLE TO THE AIRPORT AND ENGINEER AT ALL TIMES. THE CONTRACTOR SHALL HAVE AVAILABLE VACUUM BROOMS, WATERING TRUCKS AND OTHER EQUIPMENT NECESSARY TO CONTROL DUST AND DEBRIS AT ALL TIMES. ALL METHODS FOR CONTROLLING DUST AND DEBRIS SHALL BE SUBJECT TO THE AIRPORT'S APPROVAL. DUST AND DEBRIS CONTROL SHALL BE STRICTLY MONITORED DUE TO ITS IMPACT ON AIRCRAFT SAFETY. FAILURE TO PROPERLY CONTROL DUST AND DEBRIS OR TO RESPOND TO ANY REQUESTS TO DO SO WILL RESULT IN CONSTRUCTION ACTIVITIES BEING STOPPED.
10. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS THAT ARE PERTINENT TO THIS WORK.
11. ALL ELEMENTS OF THE CONSTRUCTION SHALL BE DONE IN SUCH A MANNER THAT, AT THE END OF CONSTRUCTION, THE AREA WILL BE IN A CONDITION SUITABLE FOR AIRPORT OPERATIONS AND SUBJECT TO ENGINEER AND AIRPORT OPERATIONS APPROVAL.

HAUL ROUTES

1. LOCATION OF HAUL ROUTES AND STAGING AREAS ON THE AIRPORT SITE AS SHOWN ON THE HAUL ROUTE ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE EXACT LOCATIONS IN THE FIELD WITH THE ENGINEER AND AIRPORT OPERATIONS, AND TO COORDINATE OFF-SITE HAUL ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE HAUL ROUTES AND STAGING AREAS SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. THE BEFORE AND AFTER CONDITION OF ON-SITE HAUL ROUTES AND STAGING AREAS SHALL BE JOINTLY INSPECTED AND DOCUMENTED BY THE CONTRACTOR, THE ENGINEER, AND AIRPORT OPERATIONS. THE CONTRACTOR SHALL PROVIDE A VIDEO TAPE OR DIGITAL PICTURES OF ALL ON-SITE HAUL ROUTES AND STAGING AREAS BEFORE START OF WORK AND UPON COMPLETION. FENCING, DRAINAGE, SEDIMENT CONTROL, GRADING AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE ENGINEER AND AIRPORT OPERATIONS PRIOR TO THE WORK. ALL ON-SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND MAINTAINED AT ALL TIMES.
2. THE CONTRACTOR IS HEREBY NOTIFIED THAT THE FAA ASSESSES PENALTIES AND FINES FOR INCURSIONS INTO ANY PART OF THE AIRPORT THAT IS NOT OTHERWISE AUTHORIZED BY THE ENGINEER AND AIRPORT OPERATIONS. ALL SUCH PENALTIES, FINES, AND AIRPORT COSTS RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE. REPEATED OFFENSES MAY RESULT IN INDIVIDUAL DISBARMENT OF THE CONTRACTOR'S PERSONNEL. USE OF UNAUTHORIZED HAUL ROUTES WILL NOT BE ACCEPTABLE.
3. THE CONTRACTOR SHALL ONLY USE THE HAUL ROUTES APPROVED BY THE ENGINEER AND AIRPORT OPERATIONS AND AS SHOWN ON THE HAUL ROUTE. THE HAUL TRUCKS MUST BE COVERED AT ALL TIMES. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN THE HAUL ROUTE WITH A POWER VACUUM DURING ALL PERIODS WHEN HAULING. FAILURE TO MAINTAIN THE HAUL ROUTE IN AN ACCEPTABLE MANNER WILL RESULT IN SUSPENSION OF WORK. IN THE EVENT THAT ANY FOREIGN OBJECT, SPILLAGE, DEBRIS OR DUST BUILDS UP AS A RESULT OF HAULING, THE CONTRACTOR SHALL BE REQUIRED TO IMMEDIATELY CLEAN AND REMOVE THE MATERIAL.
4. CONTRACTOR MUST OBTAIN A HAUL ROUTE AGREEMENT WITH SNOHOMISH COUNTY. CONTACT SNOHOMISH COUNTY CUSTOMER SERVICE CENTER (425-388-6453).

UNDERGROUND UTILITIES

1. THE LOCATION OF THE UNDERGROUND UTILITIES AND FAA CABLES SHOWN ON THE PLANS HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND FIELD CHECKS AND ARE BELIEVED TO BE CORRECT. NO GUARANTEE IS MADE AS TO THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND UTILITIES IN THE WORK AREA PRIOR TO CONSTRUCTION. ANY UNDERGROUND UTILITIES LOCATED WHICH DO NOT APPEAR ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND AIRPORT OPERATIONS. ANY DAMAGE TO UTILITIES, CAUSED BY THE CONTRACTOR, SHALL BE REPAIRED AT THE CONTRACTOR'S SOLE EXPENSE.

UTILITIES NOTIFICATION

1. THE CONTRACTOR SHALL NOTIFY, AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE ENGINEER AND AIRPORT OPERATIONS, THE REGISTERED UTILITY PROTECTION SERVICE, AND THE OWNER OF EACH UNDERGROUND UTILITY FACILITY SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL IMMEDIATELY ALERT THE OCCUPANTS OF NEARBY PREMISES OR FACILITY AS TO ANY EMERGENCY THAT IT MAY CREATE OR DISCOVER AT OR NEAR SUCH PREMISES OR FACILITIES. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE ENGINEER, AIRPORT OPERATIONS, AND THE OPERATOR OF THE UNDERGROUND FACILITY ANY BREAK OR LEAK ON ITS LINES OR ANY DENT, GOUGE, GROOVE OR OTHER DAMAGE TO SUCH LINES OR THEIR COATING OR CATHODIC PROTECTION, MADE OR DISCOVERED IN THE COURSE OF THEIR EXCAVATION.
3. ALL REQUIRED TEMPORARY UTILITIES FOR THE CONTRACTOR'S STAGING AREA SHALL BE ARRANGED AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL POLES, LINES, PIPES, METERS, ETC. TO BRING THE SERVICE FROM EXISTING SOURCES TO THE AREA.
4. THE CONTRACTOR SHALL DEAL DIRECTLY WITH ENGINEER, AIRPORT OPERATIONS, AND APPROPRIATE UTILITY AGENCIES. ALL TEMPORARY UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND AIRPORT OPERATIONS. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL HAVE ALL UTILITIES DISCONNECTED AND SHALL REMOVE ALL POLES, PIPES, METERS, ETC. AND RESTORE THE AREAS TO THEIR PREVIOUS CONDITION.
5. FOR ALL ITEMS REQUIRING THE USE OF WATER, THE CONTRACT UNIT PRICE BID FOR THE RESPECTIVE ITEM SHALL INCLUDE THE COST OF FURNISHING THE WATER.
6. ANY UTILITIES DAMAGED OR BROKEN BY THE CONTRACTOR WILL BE REPAIRED AND PUT BACK INTO WORKING ORDER IN A MANNER ACCEPTABLE TO THE OWNER OF THE AFFECTED UTILITY BY THE CONTRACTOR AT ITS EXPENSE.

UNDERGROUND UTILITIES

2 WORKING DAYS  
BEFORE YOU DIG

CALL 1-800-424-5555, or 811  
WASHINGTON UTILITY NOTIFICATION  
CENTER

7. CONTRACTOR SHALL OBTAIN A WATER METER FROM THE APPROPRIATE JURISDICTION PRIOR TO TAPPING ANY HYDRANT: MUKILTEO WATER & WASTEWATER DISTRICT.
8. CONTRACTOR SHALL NOTIFY AIRPORT PERSONNEL IMMEDIATELY IF THEY DEACTIVATE WATER LINES OR FIRE HYDRANTS OR HAVE TO BLOCK OR RE-ROUTE EMERGENCY ACCESS ROADS.

UTILITY LINE NOTES

1. THE EXACT DEPTH OF EXISTING FUEL, GAS, WATER, AND DUCT BANKS ARE UNKNOWN. THE CONTRACTOR SHALL "FIELD VERIFY" ALL UTILITIES AS NECESSARY, BY HAND/EQUIPMENT EXCAVATION, PRIOR TO THE START OF EXCAVATION. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER AND AIRPORT OPERATIONS.

SUPERVISION

1. THE PRIME CONTRACTOR SHALL HAVE ON SITE AT ALL TIMES, WHILE WORK IS IN PROGRESS, A JOB SUPERINTENDENT/FOREMAN. THIS PERSON SHALL BE FAMILIAR WITH ALL TYPES OF CONSTRUCTION BEING PERFORMED AND SHALL BE THE SAME PERSON EACH DAY THROUGHOUT THE PROJECT. THE SUPERINTENDENT/FOREMAN SHALL HAVE THE RESPONSIBILITY OF COORDINATING EACH DAY'S WORK WITH THE AIRPORT OR AUTHORIZED REPRESENTATIVE AND SHALL HAVE AUTHORITY TO SCHEDULE AND ADJUST ALL WORKERS, PRIME AND SUB-CONTRACTORS, TO ACCOMMODATE AIRPORT OPERATIONS AS DIRECTED BY THE ENGINEER AND AIRPORT OPERATIONS.
2. ALL PERSONNEL SHALL CLEAR THE CONSTRUCTION AREA ONCE WORK HAS STOPPED FOR THE DAY. ALL MECHANICS NEEDING ACCESS TO THE AOA DURING EVENINGS AND WEEKENDS TO WORK ON CONSTRUCTION EQUIPMENT SHALL BE ESCORTED AND HAVE THEIR VEHICLES IDENTIFIED WITH THE CONTRACTOR'S NAME AND APPROPRIATE LIGHTING.

CONTRACTOR'S VEHICLES

PART OF SECTION 22, T28N, R04E

1. ALL CONTRACTORS VEHICLES SHALL BE IN GOOD WORKING ORDER. ALL CONTRACTOR VEHICLES SHALL BE ESCORTED WHILE INSIDE THE AOA THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ESCORTS WITH THE ENGINEER AND AIRPORT OPERATIONS.
2. ALL CONTRACTOR VEHICLES/EQUIPMENT THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORTS AOA SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE/EQUIPMENT A 3'x3' (MIN.) ORANGE AND WHITE CHECKER BOARD FLAG (DAY OPERATIONS). EACH CHECKER BOARD COLOR BEING ONE SQUARE FOOT. ANY VEHICLE OPERATING ON THE AOA SHALL ALSO BE EQUIPPED WITH A FLASHING AMBER (YELLOW) DOME TYPE LIGHT, MOUNTED ON TOP OF THE VEHICLE AND OF SUCH INTENSITY TO CONFORM TO LOCAL AND FEDERAL CODES FOR MAINTENANCE AND EMERGENCY VEHICLES (DAY OR NIGHT OPERATIONS).

CONTACT INFORMATION:

SNOHOMISH COUNTY AIRPORT SUPERINTENDENT OF OPERATIONS:  
BRUCE FISHER (425) 388-5110

CONTRACTOR'S GENERAL SECURITY AND OPERATIONAL REQUIREMENTS AND RESTRICTIONS:

SECURITY

1. GENERAL INTENT: IT IS INTENDED THAT THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE AIRPORT SECURITY PLAN AND WITH THE SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE TO THE ENGINEER AND AIRPORT OPERATIONS THE NAME OF ITS "CONTRACTOR SECURITY OFFICER" (C.S.O.). THE C.S.O. SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS FOR THE CONTRACT.
2. CONTRACTOR PERSONNEL SECURITY ORIENTATION: THE C.S.O. SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON AIRPORT SECURITY REQUIREMENTS AND OTHER SECURITY PROVISIONS. ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.
3. ACCESS TO THE SITE: THE CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE PLANS. NO OTHER ACCESS POINTS SHALL BE ALLOWED UNLESS APPROVED BY THE ENGINEER AND AIRPORT OPERATIONS. ALL CONTRACTOR TRAFFIC AUTHORIZED TO ENTER THE SITE SHALL BE EXPERIENCED IN THE ROUTE OR GUIDED BY CONTRACTOR PERSONNEL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE CONSTRUCTION AREA ON THE SITE. DIRECTIONAL SIGNING AT THE ACCESS GATE AND ALONG THE DELIVERY ROUTE TO THE STORAGE AREA, PLANT SITE OR WORK SITE SHALL BE AS DIRECTED BY THE ENGINEER AND AIRPORT OPERATIONS.
4. CONSTRUCTION AREA LIMITS: THE LIMITS, MATERIAL STORAGE AREAS, EQUIPMENT STORAGE AREA, PARKING AREA AND OTHER AREAS DEFINED FOR THE CONTRACTORS EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED BY THE CONTRACTOR. THE CONTRACTOR SHALL ERECT AND MAINTAIN AROUND THE PERIMETER OF THESE AREAS SUITABLE FENCING, MARKING AND OR WARNING DEVICES VISIBLE FOR DAY AND NIGHT USE. TEMPORARY BARRICADES, FLAGGING AND FLASHING WARNING LIGHTS WILL BE REQUIRED AT CRITICAL ACCESS POINTS. TYPE OF MARKING AND WARNING DEVICES SHALL BE AS INDICATED IN THE HAUL ROUTE.
5. THE CONTRACTOR'S ACCESS TO THE PROJECT SHALL BE VIA THE GATES SHOWN IN THE PLANS.

PHASING OF WORK

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MANAGE PHASING, TO COORDINATE WITH ALL PARTIES, TO MINIMIZE DISRUPTION TO ANY OPERATIONS, AND TO COORDINATE AND RECEIVE APPROVAL FOR ANY DISRUPTION.  
IN GENERAL, THE FOLLOWING SEQUENCE WILL BE ADHERED TO:
  - A. COORDINATE WITH AIRPORT AND OTHER LEASEHOLDERS, FAA, OTHER AUTHORITIES HAVING JURISDICTION ON CONSTRUCTION ACTIVITIES FOR LAND DISTURBING ACTIVITIES.
  - B. SUBMIT CONSTRUCTION PHASING PLAN AND TRAFFIC CONTROL PLAN TO THE AIRPORT.
  - C. ESTABLISH CONSTRUCTION BARRIERS, TESC, AND IMPLEMENT SWPPP.
  - D. ESTABLISH AIRFIELD SECURITY.
  - E. SET UP CONTRACTOR INFRASTRUCTURE INSIDE CONTROLLED AREA (TRAILERS, STOCKPILE, LAYDOWN).
  - F. COMMENCE DEMOLITION AND CLEARING.
  - G. CONSTRUCT UTILITY BYPASSES AS APPROPRIATE.
  - H. INITIATE AND PROCEED WITH EARTHWORK, TRENCHING.
  - I. INSTALL STRUCTURES AND PIPING.
  - K. PERFORM TESTING AND ACCEPTANCE.
  - L. PERFORM GRADING, MILLING, SUBBASE ADJUSTMENT TO FINAL GRADE.
  - M. PREPARE SUBGRADE.
  - N. INSTALL AC AND PCC PAVING.
  - O. CUT OVER UTILITIES.
  - P. CLOSEOUT, FINAL CLEANING AND INSPECTION.

7. THE CONTRACTOR'S C.S.O. WILL BE RESPONSIBLE FOR ALL OPERATIONAL PRECAUTIONS. PRIOR TO THE COMMENCEMENT OF THE WORK THE C.S.O. SHALL PROVIDE THE ENGINEER AND AIRPORT OPERATIONS AN OUTLINE OF A PROPOSED ACCIDENT AND FIRE PROTECTION PLAN FOR ALL WORK CONTEMPLATED UNDER THE CONTRACT AND CONDUCT AT LEAST ONE SAFETY MEETING EACH MONTH FOR EACH SHIFT AND REQUIRE THE ATTENDANCE OF ALL SUPERVISORS AT SUCH MEETINGS. COPIES OF THE MINUTES OF SAFETY MEETINGS SHALL BE KEPT ON FILE IN THE CONTRACTOR'S FIELD OFFICE AND MADE AVAILABLE UPON REQUEST TO THE ENGINEER OR AIRPORT OPERATIONS.
8. MAXIMUM CONSTRUCTION TRAFFIC SPEED TO BE 25 MPH ON PERIMETER ROADS. ON ALL OTHER AIRPORT PROPERTY, MAXIMUM SPEED SHALL BE 15 MPH.
9. CONTRACTOR SHALL NOTE THAT THE DIMENSIONS OF NORTH PERIMETER ROAD RESTRICT IT TO ONE LANE OF TRAFFIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING THE TRAFFIC ON NORTH PERIMETER ROAD FOR TWO-WAY USE.
10. THE CONTRACTOR SHALL ACQUAINT ITSELF WITH FAA ADVISORY CIRCULAR AC-150/5370-2E "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
11. FIRE LANES AND FIRE APPARATUS ROADS (ALL STREETS) SHALL BE MAINTAINED AND ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION.



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.

R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO

DRAWN: AC  
JS

CHECKED: CT

APPROVED: PGN

**AECOM**

Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

PROJECT TITLE: <b>PAINE FIELD PASSENGER TERMINAL</b>		PFN NO.: 16-109244 LDA
SHEET TITLE: <b>GENERAL NOTES</b>		FAA AIP NO.:
SCALE: AS SHOWN		SHEET NO.: <b>G2.0</b>
DATE: NOVEMBER 29, 2016		













LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL










ABBREVIATIONS: THROUGHOUT THE PLANS ARE ABBREVIATIONS WHICH ARE IN COMMON USE. THE LIST OF ABBREVIATIONS PROVIDED IS NOT INTENDED TO BE COMPLETE OR REPRESENTATIVE OF CONDITIONS OR MATERIALS ACTUALLY USED ON THE PROJECT. THE TECHNICAL REPRESENTATIVE WILL DEFINE THE INTENT OF ANY ABBREVIATION IN QUESTION.

@	AND	DEG	DEGREE(-S)	INST	INSTANTANEOUS	PT	POINT, POINT OF TANGENCY
±	AT	DEMO	DEMOLISH OR DEMOLITION	INSTR	INSTRUMENT	PVC	POLY VINYL CHLORIDE
CL, €	APPROXIMATELY	DET	DETAIL(-S)	INT	INTERIOR	PVMT	PAVEMENT
	CENTERLINE	DEPT	DEPARTMENT	INV	INVERT	PWR	POWER
=	DEGREE	DIA	DIAMETER	IPS	IRON PIPE SIZE	QTY	QUANTITY
#	EQUALS	DIM	DIMENSION(-S)	IWS	INDUSTRIAL WASTE SEWER	RAD	RADIUS
%	NUMBER	DIP	DUCTILE IRON PIPE	JB,J-BOX	JUNCTION BOX	RCP	REINFORCED CONCRETE PIPE
A	PERCENT	DIR	DIRECTION	JCT	JUNCTION	RD	ROAD
AB/ABAN	AREA	DIST	DISTRIBUTION	JT	JOINT	REF	REFERENCE
ABV	ABANDON (-ED)	DOE	DEPARTMENT OF ECOLOGY	K	KIP	REG	REGULATE
AC	ABOVE	DN	DOWN	KG	KILOGRAM; KNIFE GATE	REINF	REINFORCED
AC	ACRE	DWG(s)	DRAWING(-S)	Km	KILOMETER	REL	RELATIVE
AC	ASBESTOS CEMENT	(E)	EXISTING	L	LENGTH; LITER; ANGLE	REQ'D	REQUIRED
AC	ASPHALT CONCRETE	E	EAST	LAT	LATERAL	REQT	REQUIREMENT
ACP	ASPHALT CONCRETE PAVEMENT	EA	EACH	LBS	POUNDS	REV	REVISION/REVISED
ADA	AMERICANS WITH DISABILITIES ACT	EL, ELEV	ELEVATION	LF	LINEAR FEET	RGS	RIGID GALVANIZED STEEL
ADDL	ADDITIONAL	ELEC	ELECTRIC (-AL)	LG	LONG	RP	RADIUS POINT
ADJ	ADJUST (-ED, -MENT,-ABLE)	EMBT	EMBEDMENT	LGT	LIGHT	RSA	RUNWAY SAFETY AREA
ADJT	ADJACENT	EMERG	EMERGENCY	LIN	LINEAR	RWY, RW, R/W	RUNWAY
AGG	AGGREGATE	ENCL	ENCLOSURE	LOC	LOCATION	S	SOUTH, SLOPE
AL/ALUM	ALUMINUM	ENGR	ENGINEER	LONG.	LONGITUDINAL	S.B.	SAND BLASTED
ALT	ALTERNAT(-E,-IVE)	EOP	EDGE OF PAVEMENT	LT	LEFT	SCH	SCHEDULE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	EOR	ENGINEER OF RECORD	LTG	LIGHTING	SD	STORM DRAIN
AOA	AIRPORT OPERATIONS AREA	EQ	EQUAL	LTS	LIGHTS	SECT	SECTION
APPROX	APPROXIMAT(-E, -LY)	EQUIP	EQUIPMENT	MAS	MASONRY	SF	SQUARE FOOT/FEET
ARCH	ARCHITECTURAL	EQUIV	EQUIVALENT	MATL	MATERIAL	SHT	SHEET
ARFF	AIRCRAFT RESCUE FIRE FIGHTING FACILITY	EST	ESTIMATE (-D)	MAX	MAXIMUM	SIM	SIMILAR
ASPH	ASPHALT	ETC.	ETCETERA	MECH	MECHANICAL	SPEC	SPECIFICATIONS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ETRSA	EXTENDED TEMPORARY RUNWAY SAFETY AREA	MEMB	MEMB	SQ	SQUARE
ATCT	AIR TRAFFIC CONTROL TOWER	EVCE	END VERTICAL CURVE ELEVATION	MFR	MANUFACTURER	SQ FT	SQUARE FEET
ATR	ALL THREADED ROD	EXC	EXCAVATE	MG	MILLIGRAMS	SQ IN	SQUARE INCHES
AUTO	AUTOMATIC	EXIST	EXISTING	MH	MANHOLE	SS	SANITARY SEWER
AUX	AUXILIARY	EXP	EXPANSION, EXPOSED	MIN	MINIMUM; MINUTE	SSTL	STAINLESS STEEL
AVE	AVENUE	EXJ, EXP JT	EXPANSION JOINT	MISC	MISCELLANEOUS	ST	STREET
AVG	AVERAGE	E-W	EAST-WEST	MOD	MODIFICATION(-S)	STA	STATION
BET	BETWEEN	F	FAHRENHEIT	MON	MONUMENT	STD	STANDARD
BITUM	BITUMINOUS	FAA	FEDERAL AVIATION ADMINISTRATION	MPH	MILES PER HOUR	STL	STEEL
BL	BUILDING LINE	FDN	FOUNDATION	MTD	MOUNTED	STOR	STORAGE
BLDG	BUILDING	FH	FIRE HYDRANT	N	NORTH/NEUTRAL	STRUCT	STRUCTURE
BLK	BLOCK(-S)	FIG	FIGURE	N/A	NOT APPLICABLE	SUSP	SUSPEND(-ED)
BM	BEAM	FG	FINISH GRADE	NE	NORTHEAST	SWMWW	STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON
BM	BENCH MARK	FIN	FINISHED	NEC	NATIONAL ELECTRICAL CODE	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
BOT	BOTTOM	FL	FLOOD LIGHT	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.	SY	SQUARE YARD
BS	BLACK STEEL	FLASH	FLASHING	NEUT	NEUTRAL	SYM	SYMMETRICAL
BSMT	BASEMENT	FLEX	FLEXIBLE	NF	NEAR FACE	TAN.	TANGENT
BTWN	BETWEEN	FLG	FLANGE	NGVD	NATIONAL GEODETIC	TBD	TO BE DETERMINED
C	DEGREES CELSIUS (CENTIGRADE)	FLR	FLOOR	NIC	NOT IN CONTRACT	TC	TOP OF CURVE
CB	CATCH BASIN	FOD	FOREIGN OBJECT DEBRIS	NOM	NOMINAL	TE	TOP ELEVATION
CEM	CEMENT	FT	FEET, FOOT	NORM	NORMAL	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
CTR	CENTER	FTG	FOOTING	NO.	NUMBER	TEL, TELE	TELEPHONE
CF	CUBIC FEET	FUT	FUTURE	NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	TEMP	TEMPORARY
CI	CAST IRON	FWD	FORWARD			THK	THICK, THICKENED, THICKNESS
CIP	CAST-IN-PLACE	GAL	GALLON	NPP	NON-PERFORATED PIPE	THRU	THROUGH
CIRC	CIRCULA(-R,-TION)	GALV	GALVANIZED	NTP	NOTICE TO PROCEED	TOC	TOP OF CONCRETE
CJ	CONSTRUCTION JOINT	GCM	GENERAL CONTRACTOR/CONSTRUCTION MANAGER	NTS	NOT TO SCALE	TOFA	TAXIWAY OBJECT FREE AREA
CL	CENTERLINE OR CLASS CLASSIFICATION	GENL	GENERAL	OC	ON CENTER	TOP	TOP OF PAVEMENT
CLASS	CLASSIFICATION	GND	GROUND	OD	OUTSIDE DIAMETER	TOS	TOP OF STEEL
CLG	CEILING	GR	GRADE	OPP	OPPOSITE	TOPO	TOPOGRAPHY
CLOS	CLOSET	GRS	GALVANIZED RIGID STEEL	OPER	OPERATOR	TRANSF	TRANSFORMER
CLR	CLEAR (-ANCE)	GV	GATE VALVE	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	TRANSV	TRANSVERSE
CM	CENTIMETER	H	HIGH, HEIGHT	O.T.S.	OPEN TO STRUCTURE	TRSA	TEMPORARY RUNWAY SAFETY AREA
CMP	CORRUGATED METAL PIPE	HDPE	HIGH DENSITY POLYETHYLENE	P	PIPE	TRTMT	TREATMENT
CMU	CONCRETE MASONRY UNIT	HEX	HEXAGONAL	PAV	PAVEMENT	TSA	TAXIWAY SAFETY AREA
COL	COLUMN	HGR	HANGAR	PB	PULLBOX, PUSH BUTTON	TYP	TYPICAL

EXISTING

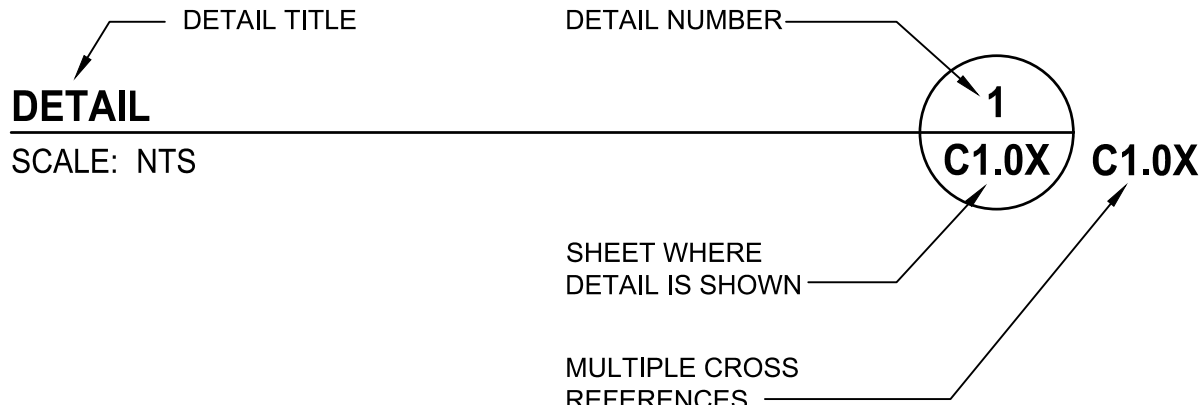
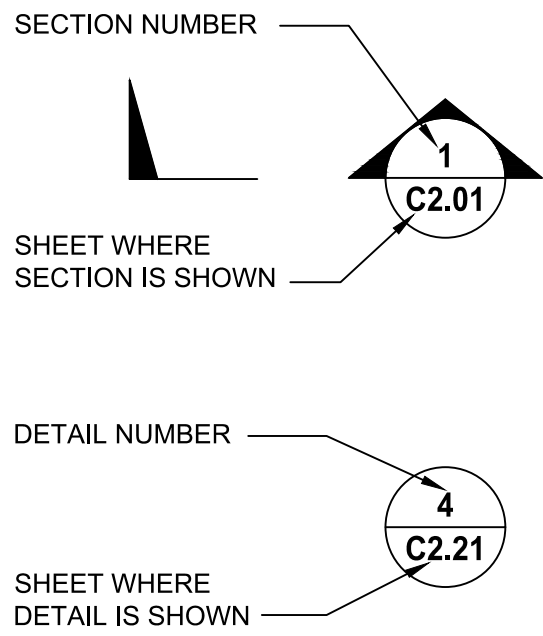
	EXISTING EDGE OF PAVEMENT
	EXISTING CONTOUR
	EXISTING FENCE
	EXISTING STORM DRAIN
	EXISTING DRAIN
	EXISTING SANITARY SEWER
	EXISTING WATER LINE
	EXISTING LIGHTS
	EXISTING CATCH BASIN
	EXISTING MANHOLE
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT




PROPOSED

	EDGE OF PAVEMENT
	CONTOUR
	GRADING LIMITS
	STORM DRAIN PIPE
	TEMPORARY INLET PROTECTION
	MANHOLE/CATCH BASIN TYPE II
	CATCH BASIN TYPE I

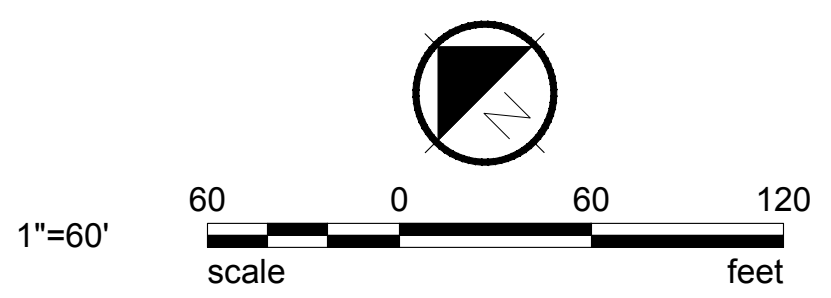
NOTE: REFER TO INDIVIDUAL SHEETS FOR  
LEGEND ITEMS NOT SHOWN.

## REFERENCE SYMBOLS



Snohomish County Planning & Development Services APPROVED FOR CONSTRUCTION  BY: _____ RANDOLPH R. SLEIGHT, P.E., P.L.S.  R/W PERMIT NO. _____	DESIGNED: PGN GF BO		 <b>AECOM</b> Airport Services 1111 Third Avenue, Floor 16 Seattle, Washington 98101 TEL: (206) 438-2700 FAX: (206) 438-2699	REVISION No. 1 REVISION DATE 11/29/16 DESCRIPTION LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL	 <b>SNOHOMISH COUNTY AIRPORT</b> <b>PAINE FIELD EVERETT, WA</b>  	PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL		PFN NO.: 16-109244 LDA
	DRAWN: AC JS			CHECKED: CT		APPROVED: PGN	SHEET TITLE: ABBREVIATIONS AND LEGEND	FAA AIP NO.:  SHEET NO.: <b>G2.1</b>
						SCALE: AS SHOWN	DATE: NOVEMBER 29, 2016	





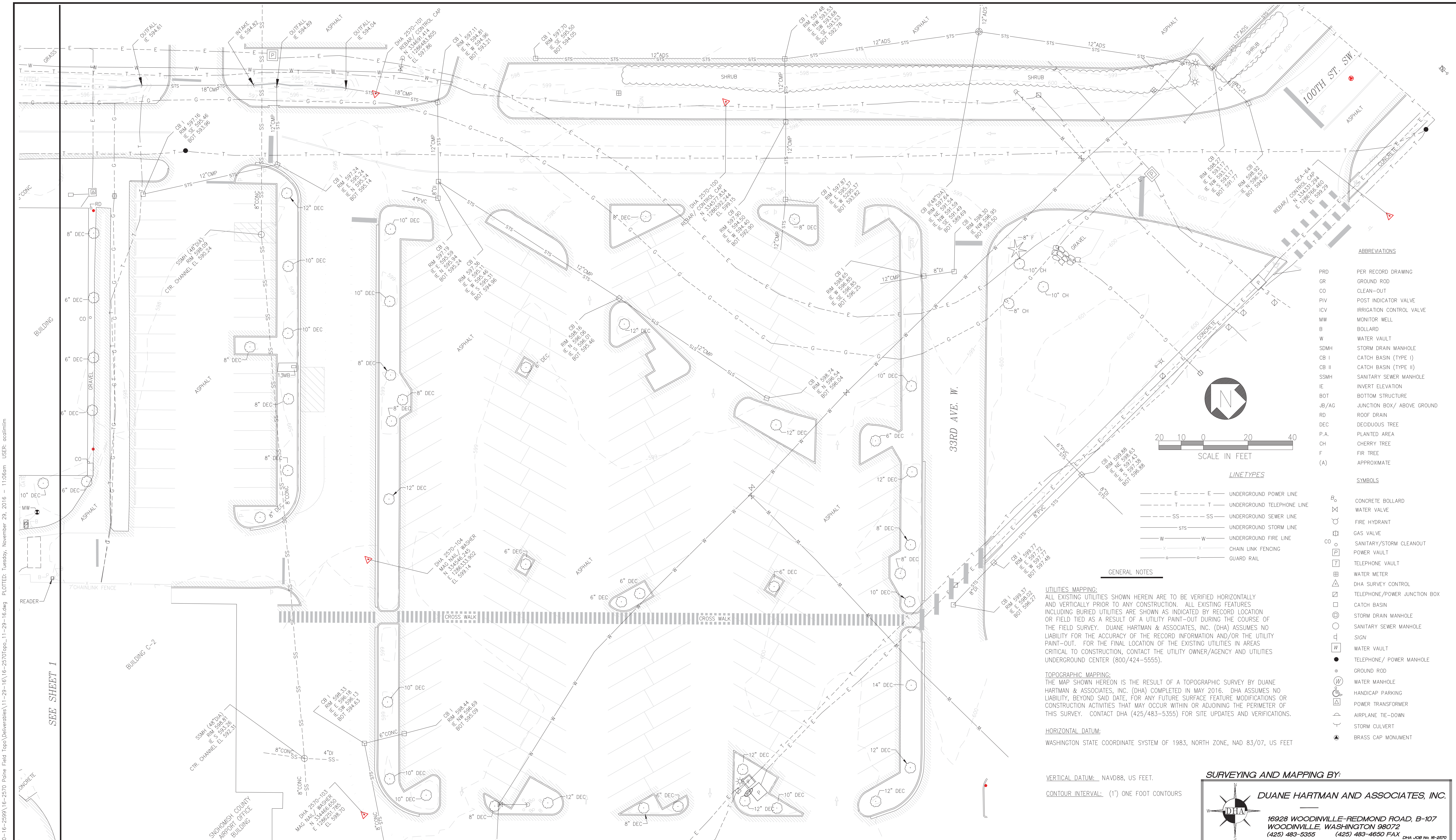
Snohomish County Planning & Development Services APPROVED FOR CONSTRUCTION  BY: _____ RANDOLPH R. SLEIGHT, P.E., P.L.S.  R/W PERMIT NO. _____	DESIGNED: PGN GF BO		 <b>AECOM</b> Airport Services  1111 Third Avenue, Floor 16 Seattle, Washington 98101 TEL: (206) 438-2700 FAX: (206) 438-2699	REVISION No. 1 REVISION DATE 11/29/16 DESCRIPTION LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL	 	PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL		PFN NO.: 16-109244 LDA
	DRAWN: AC JS			CHECKED: CT		APPROVED: PGN	SHEET TITLE: EXISTING CONDITIONS	FAA AIP NO.:
						SCALE: AS SHOWN	DATE: NOVEMBER 29, 2016	







FILE NAME: Z:\projects\archive\15-2500-16-2599\16-2570 Paine Field Topo Deliverables\11-29-16\16-2570topo\_11-29-16.dwg PLOTTED: Tuesday, November 29, 2016 - 11:06am USER: acclimlin



ABBREVIATIONS

- PRD PER RECORD DRAWING
- GR GROUND ROD
- CO CLEAN-OUT
- PIV POST INDICATOR VALVE
- ICV IRRIGATION CONTROL VALVE
- MW MONITOR WELL
- B BOLLARD
- W WATER VAULT
- SDMH STORM DRAIN MANHOLE
- CB I CATCH BASIN (TYPE I)
- CB II CATCH BASIN (TYPE II)
- SSMH SANITARY SEWER MANHOLE
- IE INVERT ELEVATION
- BS BOTTOM STRUCTURE
- JB/AG JUNCTION BOX / ABOVE GROUND
- RD ROOF DRAIN
- DEC DECIDUOUS TREE
- P.A. PLANTED AREA
- CH CHERRY TREE
- F FIR TREE
- (A) APPROXIMATE

SYMBOLS

- B<sub>0</sub> CONCRETE BOLLARD
- ⊗ WATER VALVE
- ⊙ FIRE HYDRANT
- ⊕ GAS VALVE
- CO ⊕ SANITARY/STORM CLEANOUT
- ⊕ POWER VAULT
- ⊕ TELEPHONE VAULT
- ⊕ WATER METER
- ⊕ DHA SURVEY CONTROL
- ⊕ TELEPHONE/POWER JUNCTION BOX
- ⊕ CATCH BASIN
- ⊕ STORM DRAIN MANHOLE
- ⊕ SANITARY SEWER MANHOLE
- ⊕ SIGN
- ⊕ WATER VAULT
- TELEPHONE/ POWER MANHOLE
- GROUND ROD
- ⊕ WATER MANHOLE
- ⊕ HANDICAP PARKING
- ⊕ POWER TRANSFORMER
- ⊕ AIRPLANE TIE-DOWN
- ⊕ STORM CULVERT
- ⊕ BRASS CAP MONUMENT

LINETYPES

- E --- E UNDERGROUND POWER LINE
- T --- T UNDERGROUND TELEPHONE LINE
- SS --- SS UNDERGROUND SEWER LINE
- STS --- STS UNDERGROUND STORM LINE
- W --- W UNDERGROUND FIRE LINE
- x --- x CHAIN LINK FENCING
- o --- o GUARD RAIL

GENERAL NOTES

UTILITIES MAPPING:  
ALL EXISTING UTILITIES SHOWN HEREIN ARE TO BE VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION. ALL EXISTING FEATURES INCLUDING BURIED UTILITIES ARE SHOWN AS INDICATED BY RECORD LOCATION OR FIELD TIED AS A RESULT OF A UTILITY PAINT-OUT DURING THE COURSE OF THE FIELD SURVEY. DUANE HARTMAN & ASSOCIATES, INC. (DHA) ASSUMES NO LIABILITY FOR THE ACCURACY OF THE RECORD INFORMATION AND/OR THE UTILITY PAINT-OUT. FOR THE FINAL LOCATION OF THE EXISTING UTILITIES IN AREAS CRITICAL TO CONSTRUCTION, CONTACT THE UTILITY OWNER/AGENCY AND UTILITIES UNDERGROUND CENTER (800/424-5555).

TOPOGRAPHIC MAPPING:  
THE MAP SHOWN HEREON IS THE RESULT OF A TOPOGRAPHIC SURVEY BY DUANE HARTMAN & ASSOCIATES, INC. (DHA) COMPLETED IN MAY 2016. DHA ASSUMES NO LIABILITY, BEYOND SAID DATE, FOR ANY FUTURE SURFACE FEATURE MODIFICATIONS OR CONSTRUCTION ACTIVITIES THAT MAY OCCUR WITHIN OR ADJOINING THE PERIMETER OF THIS SURVEY. CONTACT DHA (425/463-5355) FOR SITE UPDATES AND VERIFICATIONS.

HORIZONTAL DATUM:  
WASHINGTON STATE COORDINATE SYSTEM OF 1983, NORTH ZONE, NAD 83/07, US FEET

VERTICAL DATUM: NAVD88, US FEET.  
CONTOUR INTERVAL: (1') ONE FOOT CONTOURS

**SURVEYING AND MAPPING BY:**  
**DUANE HARTMAN AND ASSOCIATES, INC.**  
16928 WOODINVILLE-REDMOND ROAD, B-107  
WOODINVILLE, WASHINGTON 98072  
(425) 483-5355 (425) 483-4650 FAX DHA JOB No. 16-2570

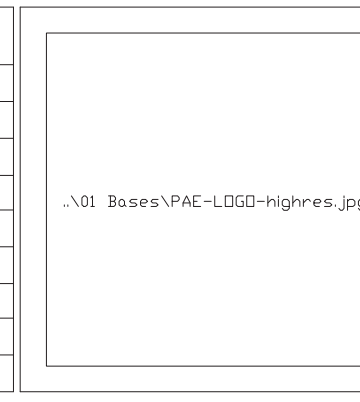
Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION  
BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO.

DESIGNED:  
DRAWN: AAC  
CHECKED: DAH  
APPROVED:



PROFESSIONAL LAND SURVEYOR  
CERTIFICATE No. 36798  
11.29.16  
DATE:

REVISION No.	REVISION DATE	DESCRIPTION



**SNOHOMISH COUNTY AIRPORT  
PAINE FIELD EVERETT, WA**

PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL  
SHEET TITLE: SURVEY  
SCALE: AS SHOWN  
DATE: MAY 30TH, 2016

PFN NO.:  
FAA AIP NO.:  
SHEET NO.: 2

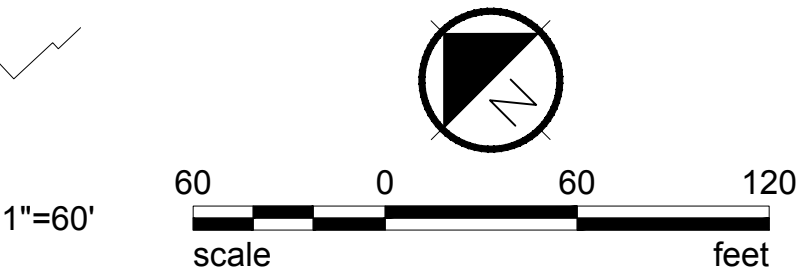
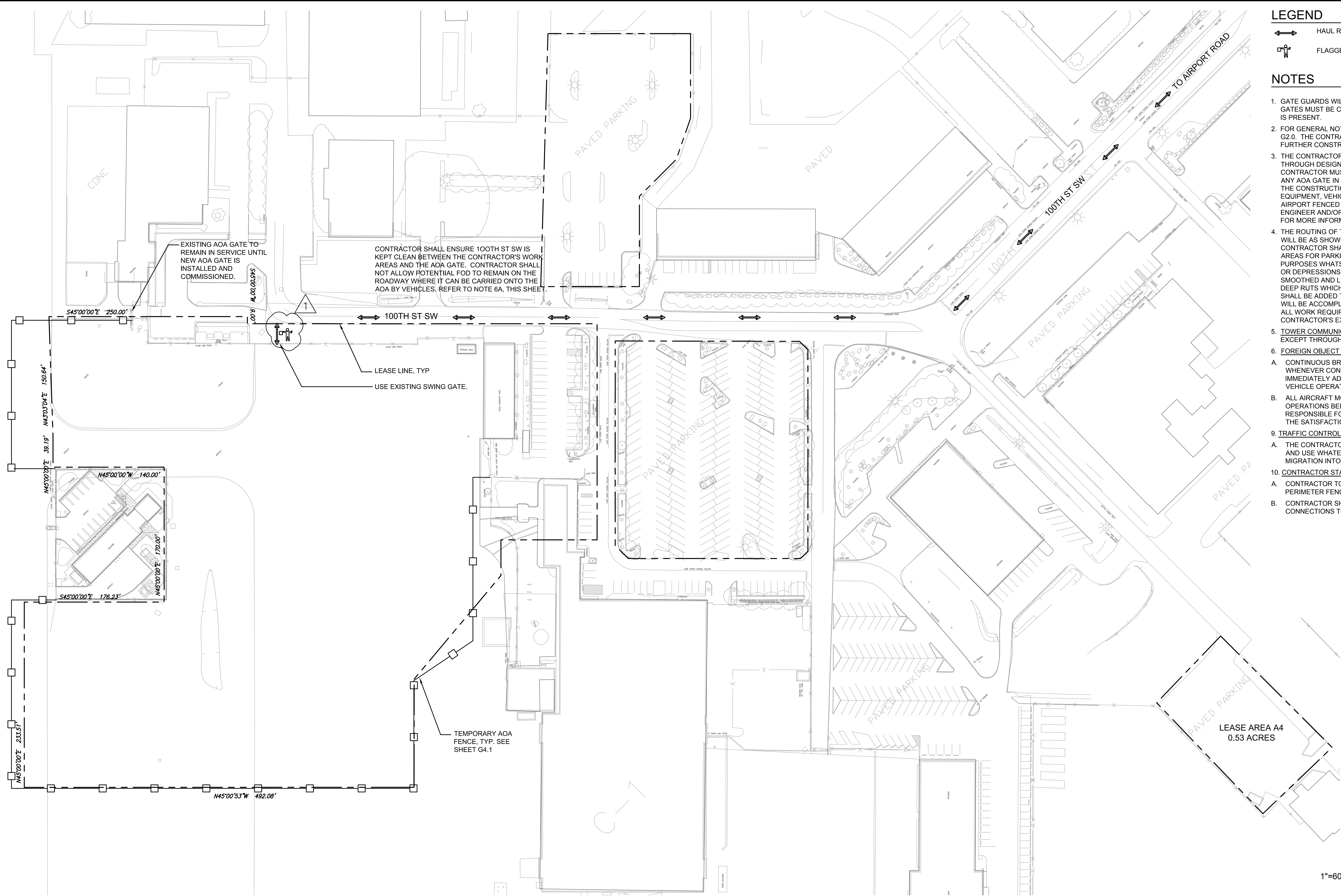


LEGEND

- HAUL ROUTE
- FLAGGER

NOTES

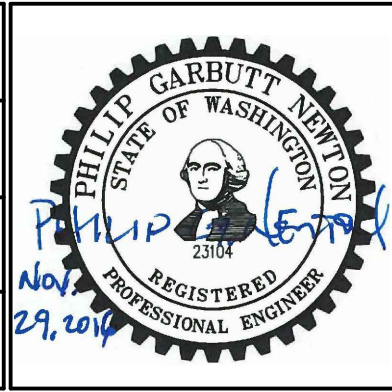
- GATE GUARDS WILL BE NEEDED DURING FREQUENT USE OF ANY AOA GATE. GATES MUST BE CLOSED AND LOCKED AT ALL TIMES UNLESS A GATE GUARD IS PRESENT.
- FOR GENERAL NOTES RELATED TO OPERATING ON THE AIRPORT REFER TO G2.0. THE CONTRACTOR SHALL REFER TO ALL CONTRACT DOCUMENTS FOR FURTHER CONSTRUCTION REQUIREMENTS.
- THE CONTRACTOR WILL BE ALLOWED ENTRY TO THE AIRFIELD ONLY THROUGH DESIGNATED ACCESS LOCATIONS AND HAUL ROUTES. CONTRACTOR MUST PROVIDE PERSONNEL TO CONTINUOUSLY MONITOR ANY AOA GATE IN USE. ONLY PERSONNEL AND EQUIPMENT ESSENTIAL TO THE CONSTRUCTION SHALL BE ALLOWED ENTRY TO THE AOA. NO PERSONS, EQUIPMENT, VEHICLES, OR MATERIALS WILL BE ALLOWED WITHIN THE AIRPORT FENCED AREA WITHOUT FIRST MAKING ARRANGEMENTS WITH THE ENGINEER AND/OR AIRPORT OPERATIONS. REFER TO PHASING DRAWINGS FOR MORE INFORMATION.
- THE ROUTING OF TRAFFIC AND STORAGE OF MATERIALS AND EQUIPMENT WILL BE AS SHOWN ON THE CONSTRUCTION PHASING PLANS. THE CONTRACTOR SHALL REFRAIN FROM USING ANY OF THE AIRFIELD GRASS AREAS FOR PARKING, TURNAROUND OF EQUIPMENT, OR ANY OTHER PURPOSES WHATSOEVER EXCEPT AS CONSTRUCTION DICTATES. ANY RUTS OR DEPRESSIONS CAUSED BY THE CONTRACTOR SHALL IMMEDIATELY BE SMOOTHED AND LEVELED IN A MANNER ACCEPTABLE TO THE AIRPORT. IN DEEP RUTS WHICH CANNOT BE LEVELED TO THE PREVIOUS GRADE, SAND SHALL BE ADDED TO REPAIR THE RUT. RESEEDING OF ALL DAMAGED AREAS WILL BE ACCOMPLISHED BY THE CONTRACTOR WHEN WEATHER PERMITS. ALL WORK REQUIRED UNDER THIS PROVISION SHALL BE AT THE CONTRACTOR'S EXPENSE.
- TOWER COMMUNICATIONS: CONTRACTOR MAY NOT CONTACT THE TOWER EXCEPT THROUGH THE ENGINEER OR AIRPORT OPERATIONS.
- FOREIGN OBJECT DEBRIS (FOD) PREVENTION:
  - CONTINUOUS BROOMING, VACUUMING, OR FLUSHING WILL BE REQUIRED WHENEVER CONSTRUCTION MOVEMENTS ENTER, TRAVERSE OR ARE IMMEDIATELY ADJACENT TO AREAS WHERE AIRCRAFT OR SERVICE VEHICLE OPERATIONS OCCUR.
  - ALL AIRCRAFT MOVEMENT AREAS SHALL BE INSPECTED BY AIRPORT OPERATIONS BEFORE RETURNING TO SERVICE. THE CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING PAVEMENT AREAS IN FOD FREE STATUS, TO THE SATISFACTION OF THE ENGINEER AND AIRPORT OPERATIONS.
- TRAFFIC CONTROL:
  - THE CONTRACTOR SHALL MAINTAIN ACCESS ROADS AND HAUL ROUTES AND USE WHATEVER MEANS NECESSARY TO AVOID FOD AND DUST MIGRATION INTO THE AIRCRAFT OPERATIONS AREA.
- CONTRACTOR STAGING AREA:
  - CONTRACTOR TO CLOSE OFF PRIMARY STAGING AREA WITH TEMPORARY PERIMETER FENCING.
  - CONTRACTOR SHALL PROVIDE UTILITY (WATER, POWER AND COMM) CONNECTIONS TO TRAILERS, EQUIPMENT, ETC.



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

DESIGNED:	PGN
DRAWN:	AC JS
CHECKED:	CT
APPROVED:	PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

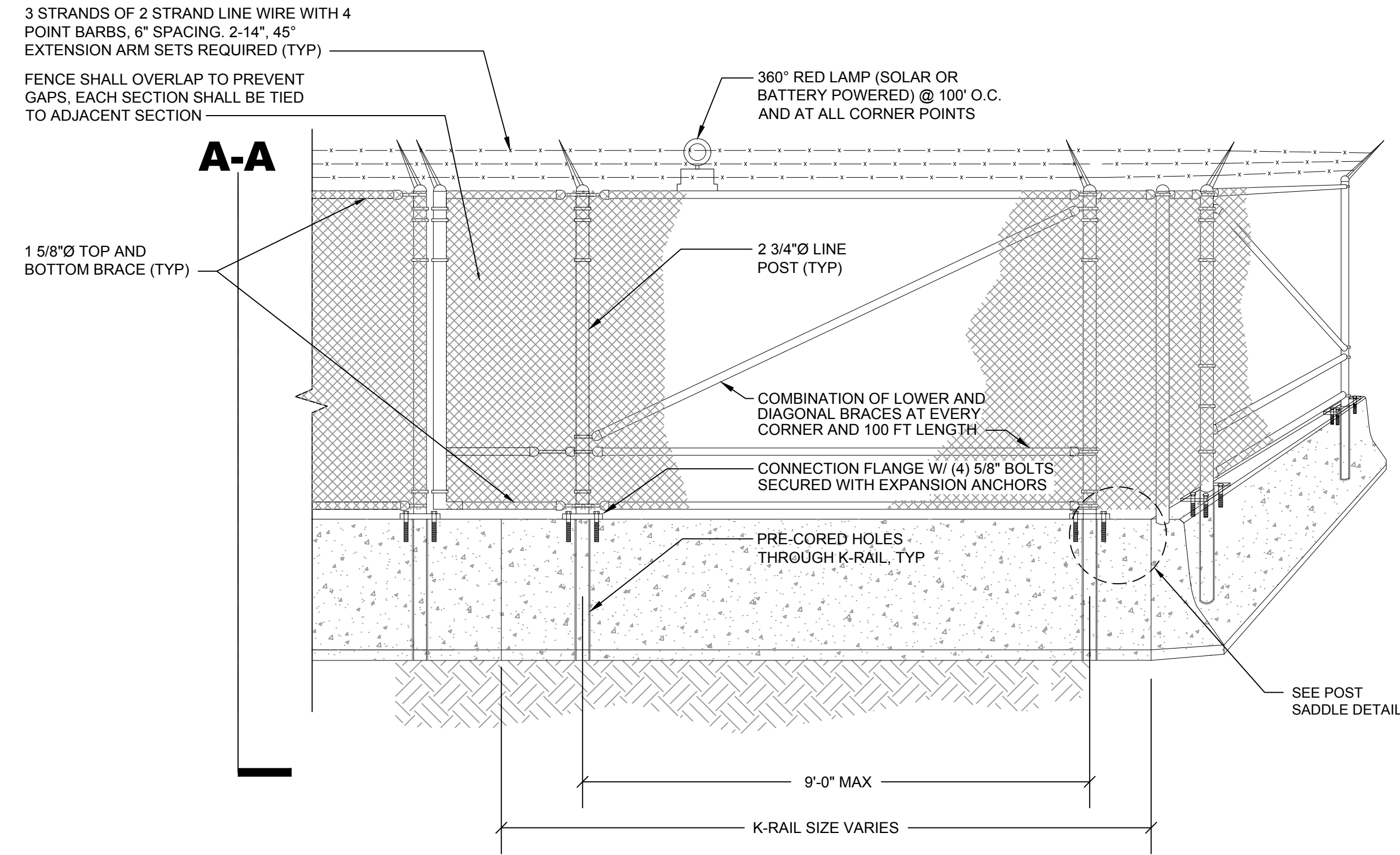
REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL

**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL	
SHEET TITLE: CONTRACTOR HAUL ROUTE AND LAYOUT PLAN	
SCALE: AS SHOWN	DATE: NOVEMBER 29, 2016

PFN NO: 16-109244 LDA
FAA AIP NO.:
SHEET NO: <b>G4.0</b>

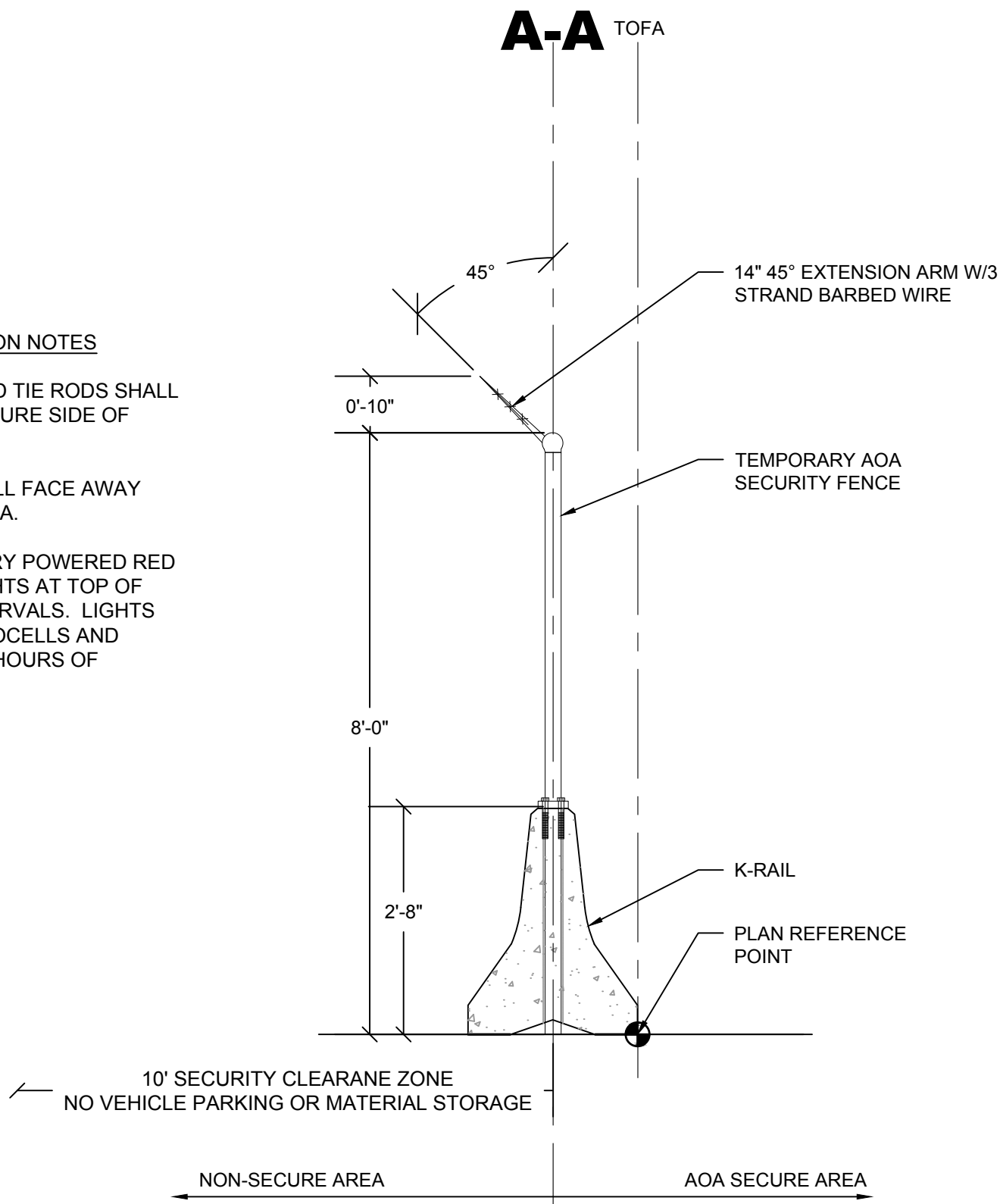




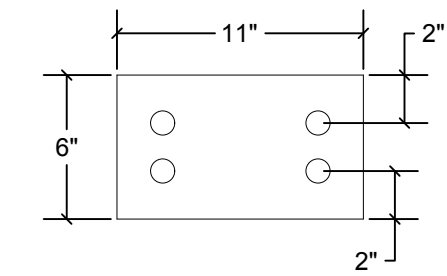
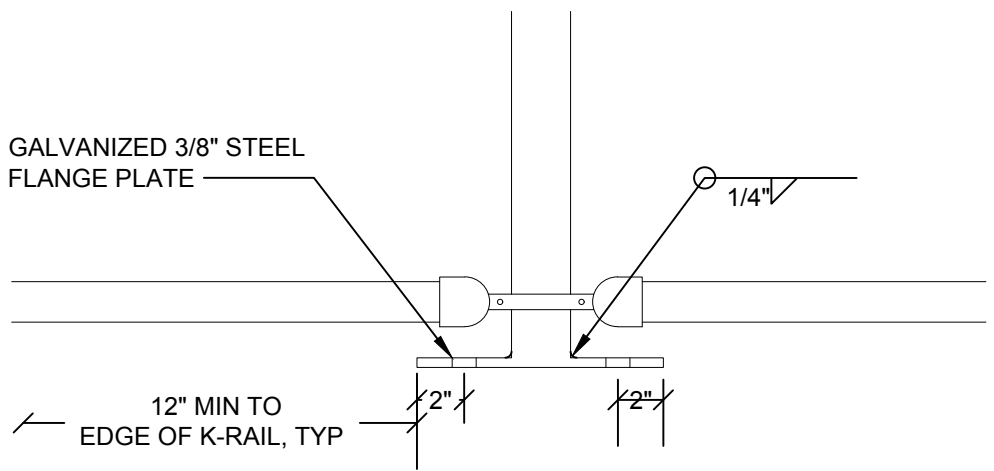
TEMPORARY AOA FENCE DETAIL

FENCE INSTALLATION NOTES

1. ALL BRACING AND TIE RODS SHALL BE PLACED ON SECURE SIDE OF FENCE.
2. BARB ARMS SHALL FACE AWAY FROM SECURE AREA.
3. PROVIDE BATTERY POWERED RED OBSTRUCTION LIGHTS AT TOP OF FENCE AT 100' INTERVALS. LIGHTS SHALL HAVE PHOTOCELLS AND OPERATE DURING HOURS OF DARKNESS.



TEMPORARY AOA FENCE DETAIL

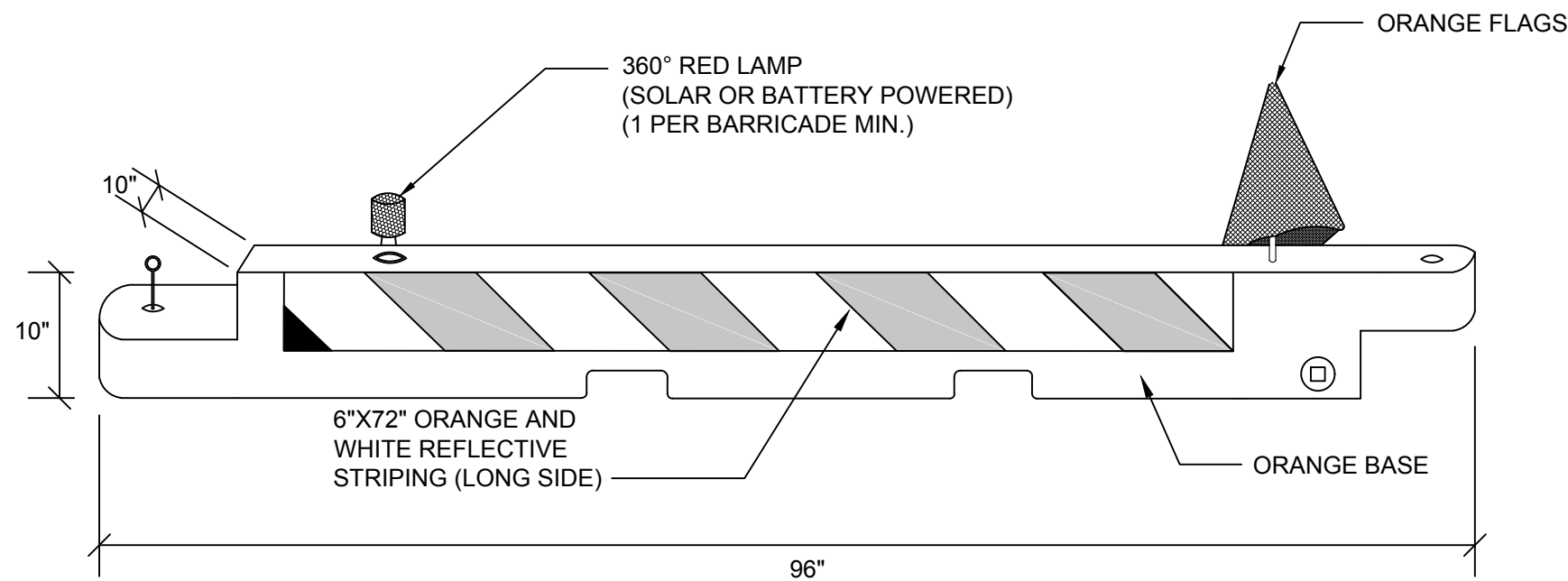


POST SADDLE DETAIL

TEMPORARY AOA FENCE DETAIL

SCALE: NONE

1  
G4.1



NOTES:

1. BARRICADES MUST BE FILLED WITH WATER BALLAST TO PREVENT MOVEMENT FROM JET OR PROP BLAST.
2. ALL BARRICADES MUST BE CHECKED AND MAINTAINED EACH CONTRACT DAY.
3. BARRICADES TO BE PLACED WITH NO GAPS UNLESS OTHERWISE NOTED.
4. PROVIDE 12' OPENING FOR AARF TRUCKS AND CONSTRUCTION TRAFFIC IF NO HAZARD.
5. CONTRACTOR TO FURNISH BARRICADES TO AIRPORT AFTER CONSTRUCTION.

LOW-PROFILE BARRICADE DETAIL

SCALE: NONE

2  
G4.1

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

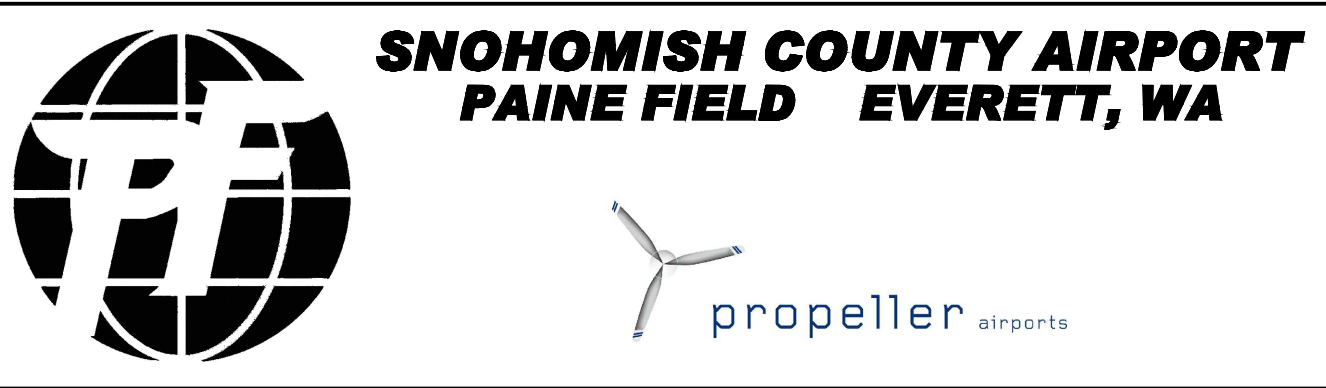
DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



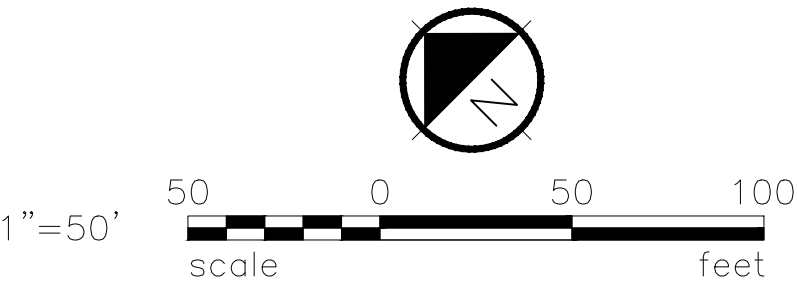
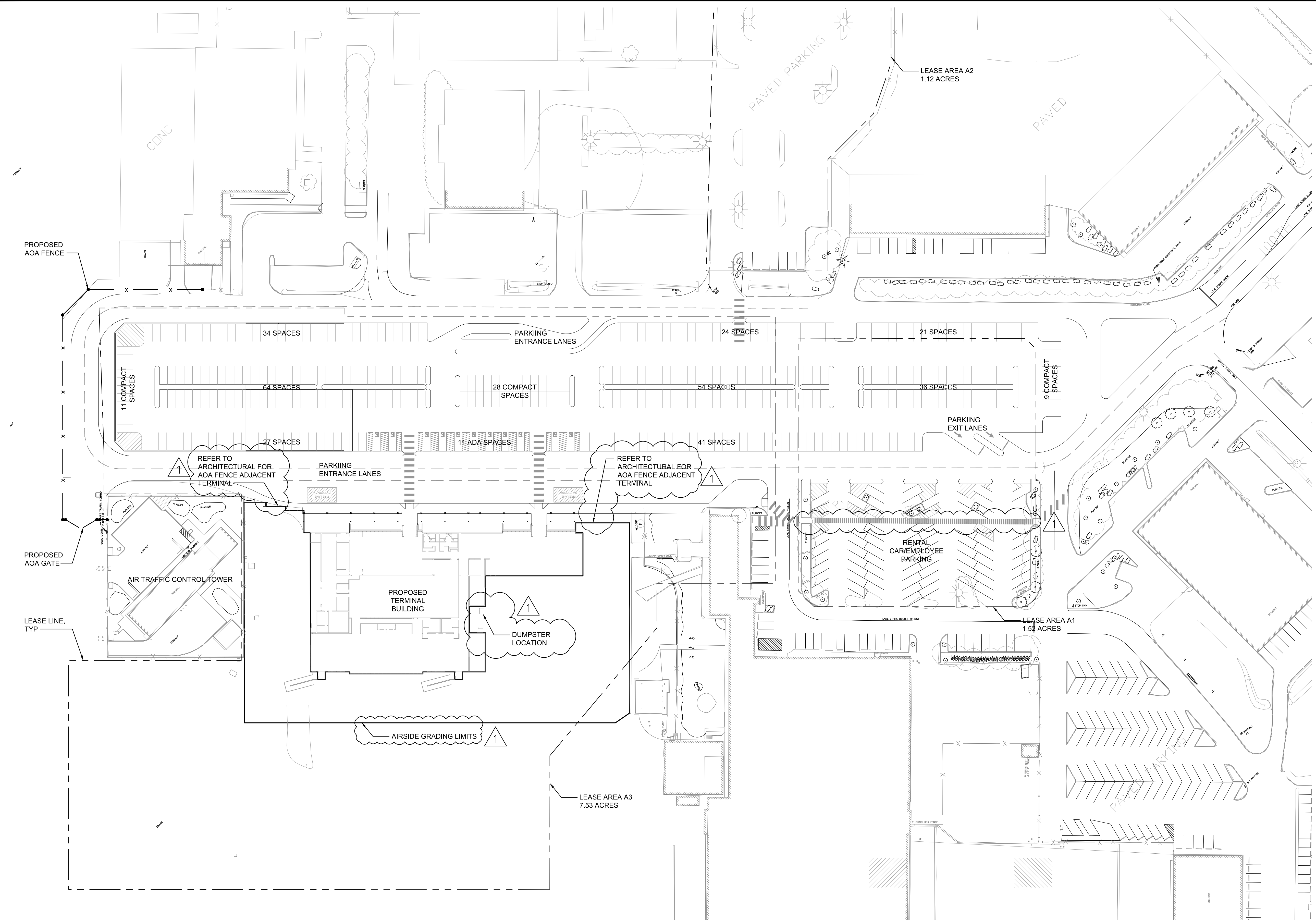
PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL	
SHEET TITLE: TEMPORARY FENCING DETAILS	
SCALE: AS SHOWN	DATE: NOVEMBER 29, 2016

PFN NO.: 16-109244 LDA
FAA AIP NO.:
SHEET NO.: <b>G4.1</b>



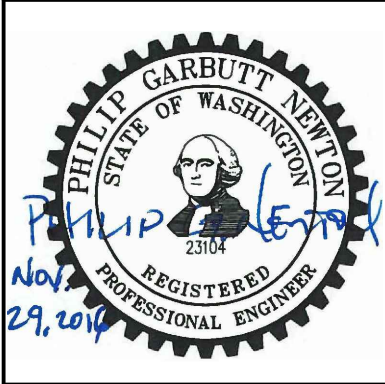
GENERAL NOTES

1. THIS SHEET SHOWS THE GENERAL SITE LAYOUT AND SURFACE FEATURES. REFER TO OTHER PLAN SHEETS FOR INFORMATION NOT SHOWN HERE.



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION  
BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services  
1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**  
propeller airports

PROJECT TITLE:	PAINE FIELD PASSENGER TERMINAL
SHEET TITLE:	OVERALL PROPOSED PLAN
SCALE:	AS SHOWN
DATE:	NOVEMBER 29, 2016

PFN NO:	16-109244 LDA
FAA AIP NO.:	
SHEET NO.:	G5.0

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL



NOTES:

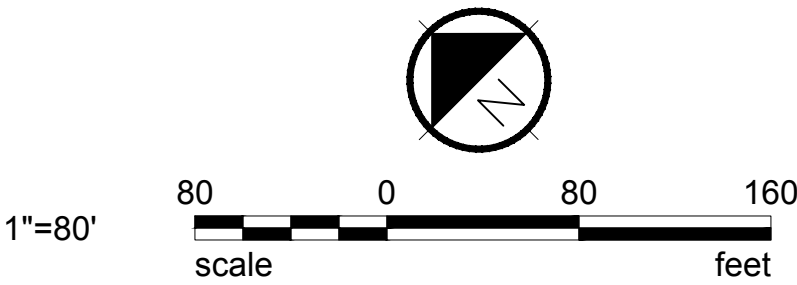
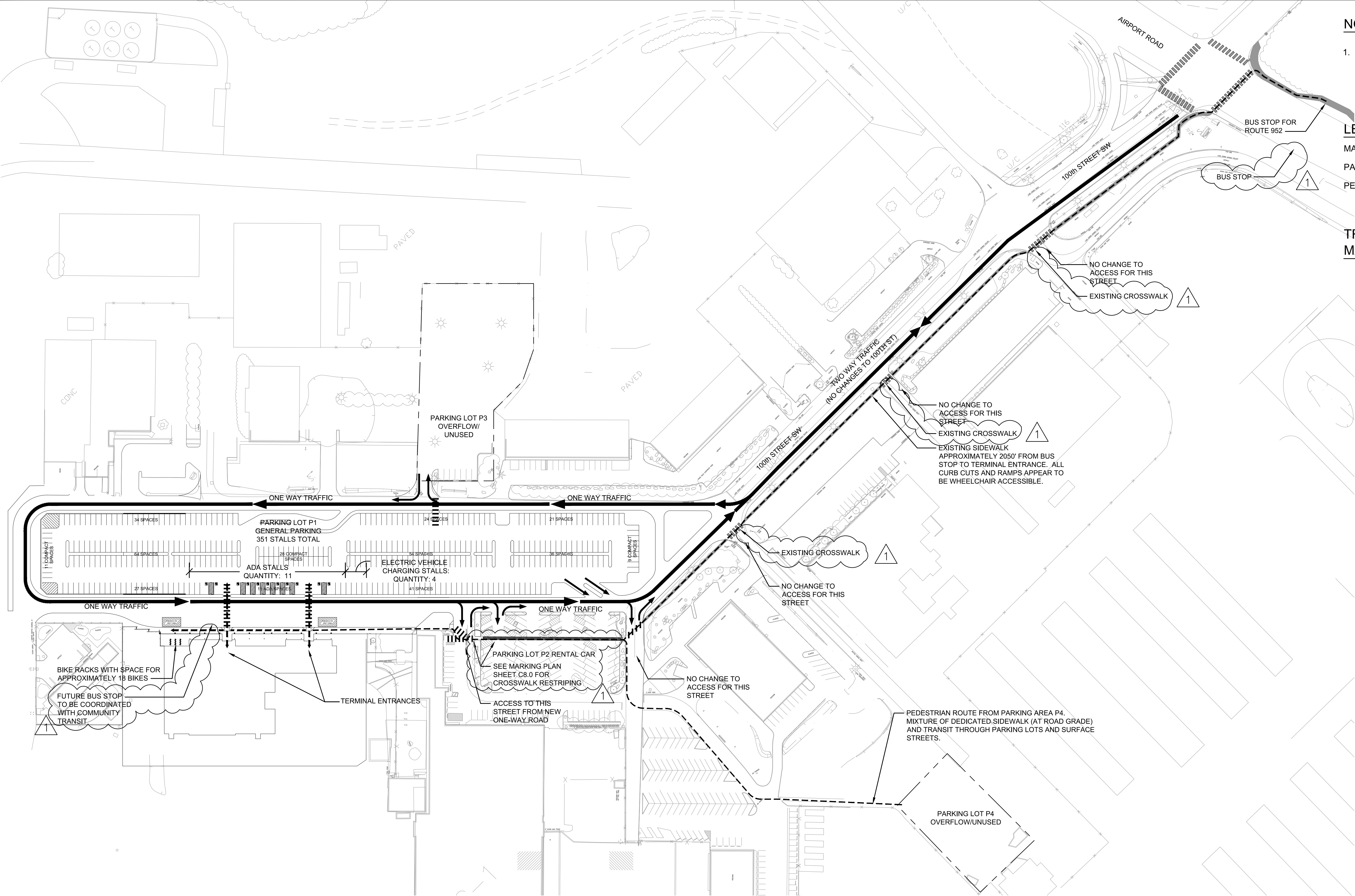
1. EXISTING ACCESSIBLE, DEDICATED PEDESTRIAN ROUTES BETWEEN THE INTERSECTION OF AIRPORT ROAD AND 100TH STREET SW AND THE PROPOSED TERMINAL SHALL BE MAINTAINED DURING AND AFTER CONSTRUCTION.

LEGEND:

- MAIN ACCESS ROAD  
PARKING LOT  
PEDESTRIAN

TRANSPORTATION DEMAND MANAGEMENT DESCRIPTION:

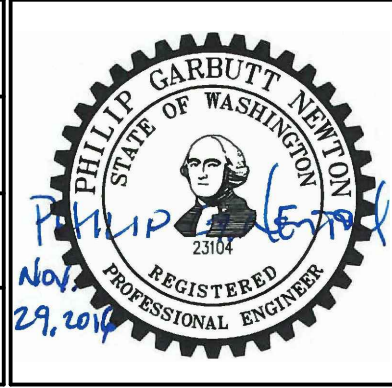
SIDEWALKS WILL BE CONSTRUCTED THAT PROVIDE CONNECTIVITY BETWEEN THE TERMINAL AND THE EXISTING SIDEWALKS ALONG THE SOUTH SIDE OF 100TH STREET SW. THE EXISTING SIDEWALKS PROVIDE CONNECTIVITY TO BOTH SIDES OF AIRPORT ROAD VIA THE AIRPORT ROAD INTERSECTION, WHICH INCLUDES CROSSWALKS. THERE ARE EXISTING TRANSIT STOPS ALONG AIRPORT ROAD. THE SITE WILL ALSO INCLUDE PEDESTRIAN CONNECTIVITY BETWEEN PARKING AREAS AND THE TERMINAL IN THE FORM OF CROSSWALKS, PAINTED WALKWAYS AND NEW SIDEWALKS. THERE IS A DEPARTURE DROP OFF AND ARRIVALS PICK-UP LANE WITH A WIDE WALKWAY IN FRONT OF THE NEW TERMINAL. IN ADDITION, THERE ARE TWO SIGNED AND STRIPPED CROSSWALKS ACCESSING THE PARKING NORTH OF THE TERMINAL. THE SITE INCLUDES SPACE FOR BUS TRANSIT SERVICE ON THE WEST SIDE OF THE TERMINAL IF SUCH SERVICE CAN BE PROVIDED BY COMMUNITY TRANSIT IN THE FUTURE. BICYCLE RACKS WILL BE PROVIDED NEAR THE WEST ENTRANCE OF THE TERMINAL BUILDING.



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

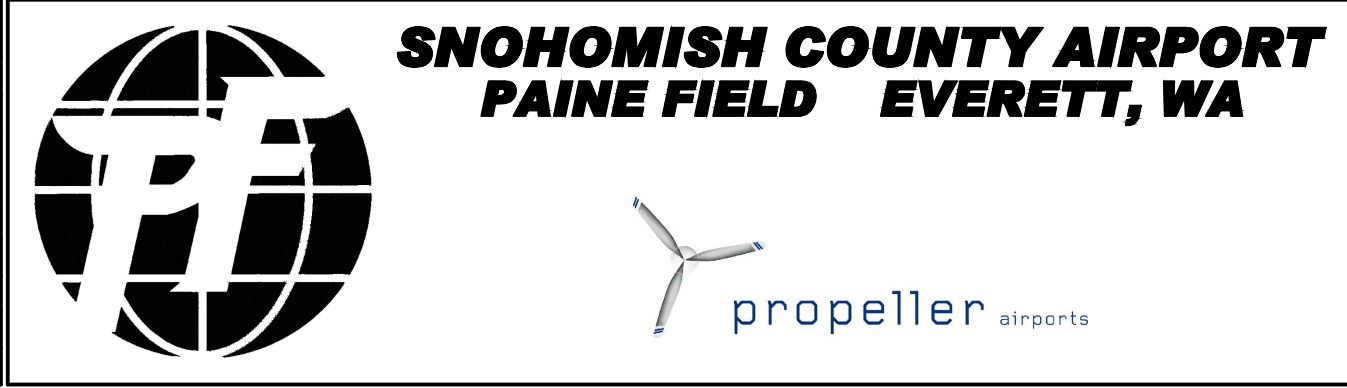
DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL

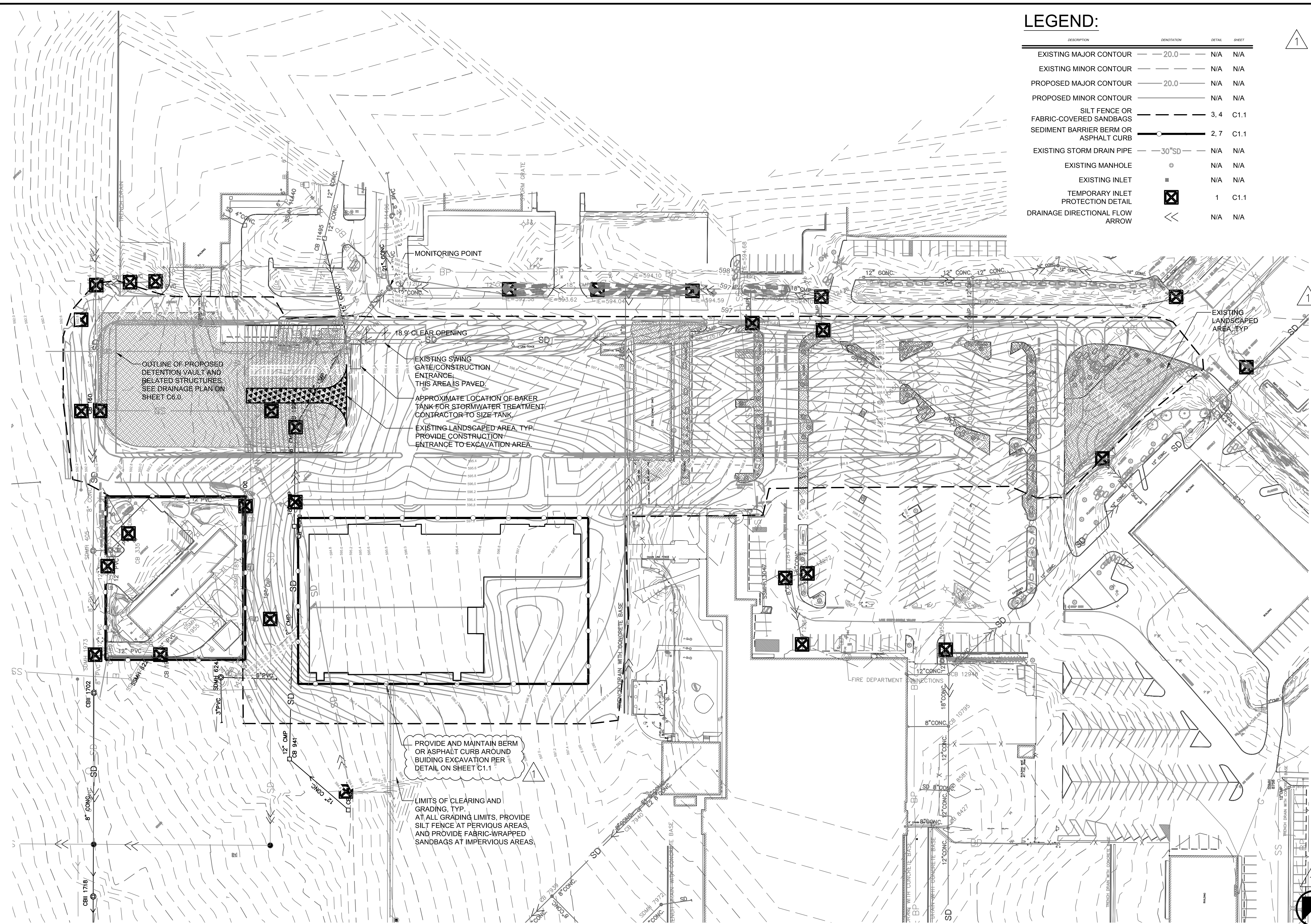


PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL	
SHEET TITLE: TRANSPORTATION DEMAND MANAGEMENT	
SCALE: AS SHOWN	DATE: NOVEMBER 29, 2016

PFN NO.: 16-109244 LDA
FAA AIP NO.:
SHEET NO.: <b>G6.0</b>



FILE NAME: C:\Box Sync\PAE Passenger Terminal Project\01 CAD\02 Sheets\C1.0 - TESC Plan.dwg PLOTTED: Wednesday, November 30, 2016 - 2:46pm USER: jasonzhou1



### LEGEND:

DESCRIPTION	NOTATION	DETAIL	SHEET
EXISTING MAJOR CONTOUR	20.0	N/A	N/A
EXISTING MINOR CONTOUR		N/A	N/A
PROPOSED MAJOR CONTOUR	20.0	N/A	N/A
PROPOSED MINOR CONTOUR		N/A	N/A
SILT FENCE OR FABRIC-COVERED SANDBAGS		3, 4	C1.1
SEDIMENT BARRIER BERM OR ASPHALT CURB		2, 7	C1.1
EXISTING STORM DRAIN PIPE	30"SD	N/A	N/A
EXISTING MANHOLE		N/A	N/A
EXISTING INLET		N/A	N/A
TEMPORARY INLET PROTECTION DETAIL		1	C1.1
DRAINAGE DIRECTIONAL FLOW ARROW		N/A	N/A

### EROSION AND SEDIMENT CONTROL NOTES:

1. CESCL: CONTACT JAMIE SHINSATO: SHINSATOJ@AECOM.COM
2. CONTRACTOR SHALL OBTAIN NPDES PERMIT.
3. APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT PAVEMENT OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF PAVEMENT, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
4. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
6. 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 MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
7. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE SITE SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
8. PER THE SNOHOMISH COUNTY DRAINAGE MANUAL, VOLUME I (JAN 2016), THE TIME PERIOD OF SOIL EXPOSURE ALLOWED DEPENDS ON THE SEASON. NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON, MAY, THROUGH SEPTEMBER 30, OR TWO DAYS DURING THE WET SEASON, OCTOBER 1 THROUGH APRIL 30, UNLESS THE COUNTY PLACES OTHER RESTRICTIONS ON THE PROJECT.
9. ANY AREAS OF EXPOSED SOILS, 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 ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.). PLASTIC COVERING MAY BE USED ON STOCKPILE AREAS TO MAINTAIN OPTIMUM MOISTURE CONTENT AND PREVENT EROSION AND SEDIMENTATION.
10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR PRECEDING AND WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
11. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE VACUUM CLEANED PRIOR TO INSTALLING CATCH BASIN INLET PROTECTION AND PRIOR TO PROJECT COMPLETION. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT- LADEN WATER INTO THE DOWNSTREAM SYSTEM. ALL LIQUIDS AND SEDIMENTS REMOVED FROM CATCH BASINS AND STORMWATER MANHOLE STRUCTURES SHALL BE TAKEN OFF SITE FOR DISPOSAL.
12. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
13. ALL SEEDING MUST BE COMPLETED BY SEPTEMBER 10.
14. COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE 2005 DEPARTMENT OF ECOLOGY SURFACE WATER DESIGN MANUAL.
15. NO CONSTRUCTION OR SITE DISTURBANCE FOR THIS PROJECT MAY BEGIN BEFORE THE CONTRACTOR FIRST OBTAINS A GENERAL PERMIT TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY PERMIT FROM THE WASHINGTON STATE DEPARTMENT OF ECOLOGY (DOE).
16. GEOTEXTILE SHALL BE CUT FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NECESSARY THEY WILL BE OVERLAPPED TO THE NEXT POST.
17. SILT FENCE GEOTEXTILE SHALL BE EMBEDDED 0.5' INTO SANDBAGS AND BACKFILLED WITH SANDBAGS PER DETAIL 2. GEOTEXTILE SHALL BE SECURELY FASTENED TO POSTS AND FRAME. COST FOR INSTALLATION SHALL BE INCLUDED IN THE PRICE BID FOR ITEM.
18. NEW STORM DRAIN INLETS WITHIN THE PROJECT AREA SHALL BE PROTECTED WITH INLET PROTECTION.
19. A MINIMUM OF 2 FEET COVER SHALL BE PROVIDED FOR ALL TEMPORARY PIPES.
20. PROCESS WATER, SUCH AS WATER USED IN CONCRETE WORK, SHALL BE HAULED TO AN APPROPRIATE DISPOSAL SITE. PROCESS WATER SHALL NOT BE DISCHARGED TO THE STORM DRAIN.
21. THE CONTRACTOR SHALL COVER AND SECURE MATERIAL ON THE TRUCKS DURING OFFSITE TRAVEL IF NECESSARY TO PREVENT SPILLAGE OR LOSS OF MATERIAL.
22. UNLESS OTHERWISE NOTED, THE WASHOUT FROM A CONCRETE TRUCK SHOULD BE DISPOSED OF INTO:
  - 22.1. A DESIGNATED AREA WHICH SHALL LATER BE BACKFILLED SUCH AS A SLURRY PIT.
  - 22.2. AN AREA WHERE THE CONCRETE WASH CAN HARDEN, BE BROKEN UP, AND THEN PUT IN THE DUMPSTER.
  - 22.3. A LOCATION WHICH IS NOT SUBJECT TO SURFACE WATER RUNOFF, AND MORE THAN 50 FEET AWAY FROM A STORM DRAIN, OPEN DITCH, RECEIVING WATER, OR WETLAND.
23. CONTRACTOR TO SUPPLY, OPERATE, AND MAINTAIN WATER QUALITY FACILITIES MEETING SWPPP DISCHARGE REQUIREMENTS. FACILITIES MAY INCLUDE BAKER TANKS AS SHOWN IN PLANS.

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO

DRAWN: AC  
JS

CHECKED: CT

APPROVED: PGN

**AECOM**  
Airport Services  
1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL

**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**  
propeller airports

PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL

SHEET TITLE: TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

SCALE: AS SHOWN

DATE: NOVEMBER 29, 2016

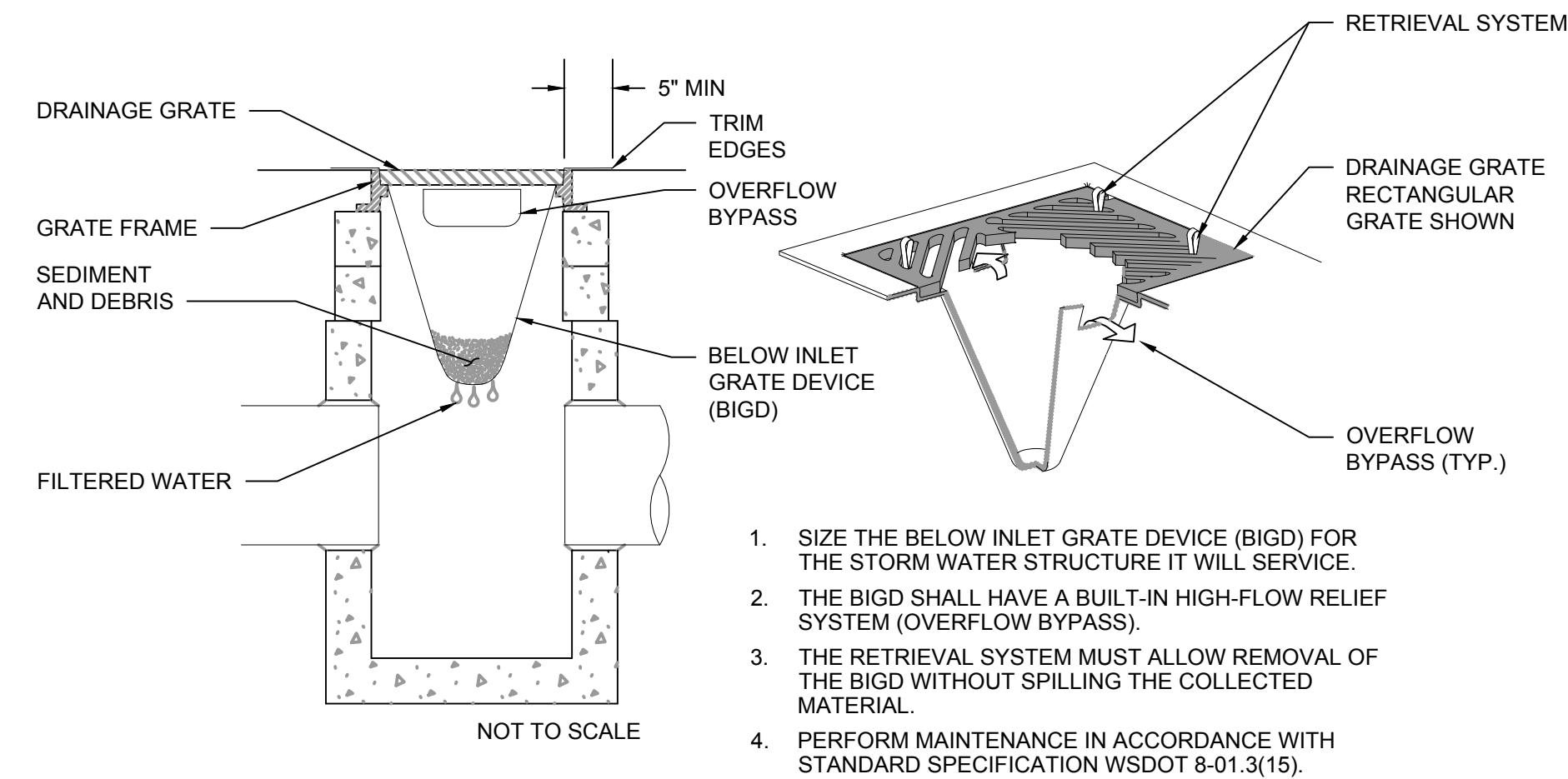
PFN NO: 16-109244 LDA

FAA AIP NO: \_\_\_\_\_

SHEET NO: **C1.0**

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL



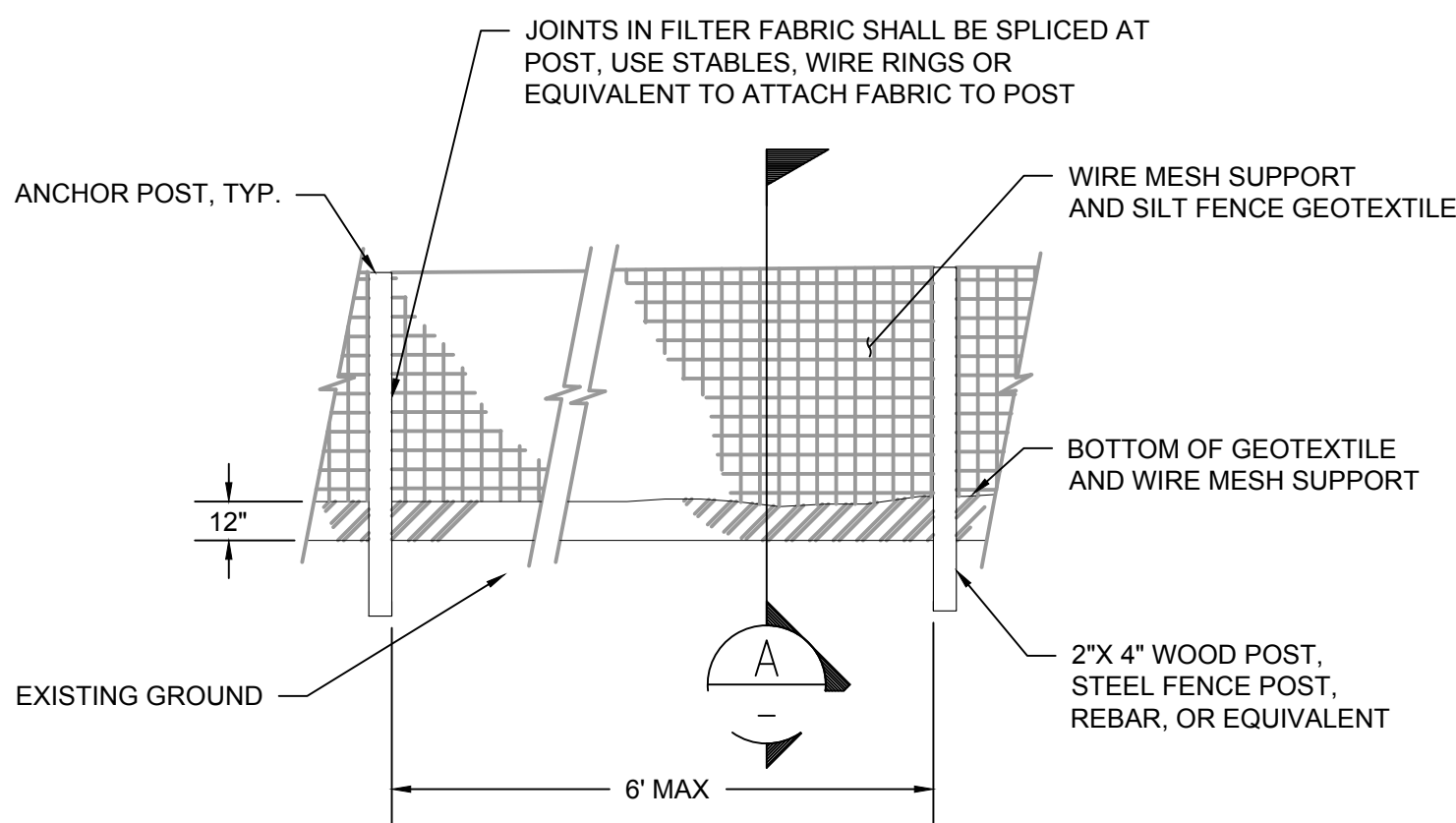


TEMPORARY INLET PROTECTION

SCALE: NONE

1

C1.1



ELEVATION

DETAIL NOTES:

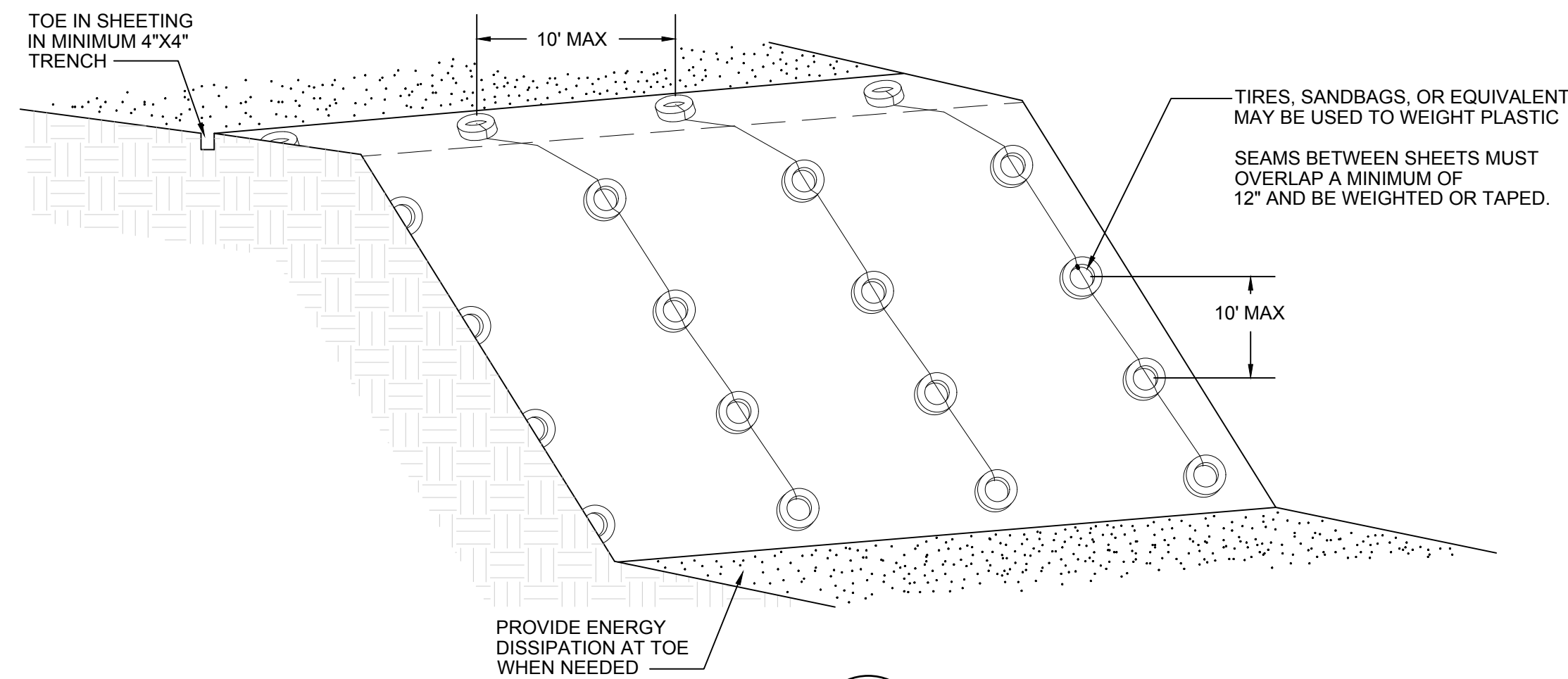
1. SILT FENCE WILL BE USED AS NEEDED DURING CONSTRUCTION AT THE DIRECTION OF THE OWNERS REPRESENTATIVE.

SILT FENCE DETAIL

SCALE: NONE

3

C1.1

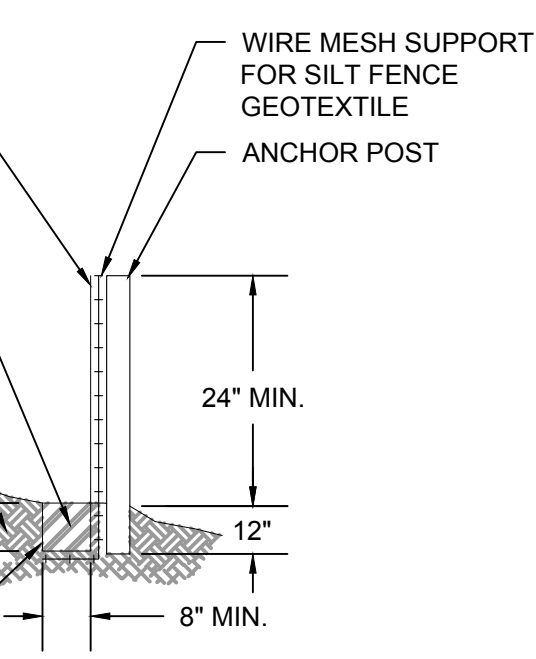


PLASTIC COVERING DETAILS

SCALE: NONE

5

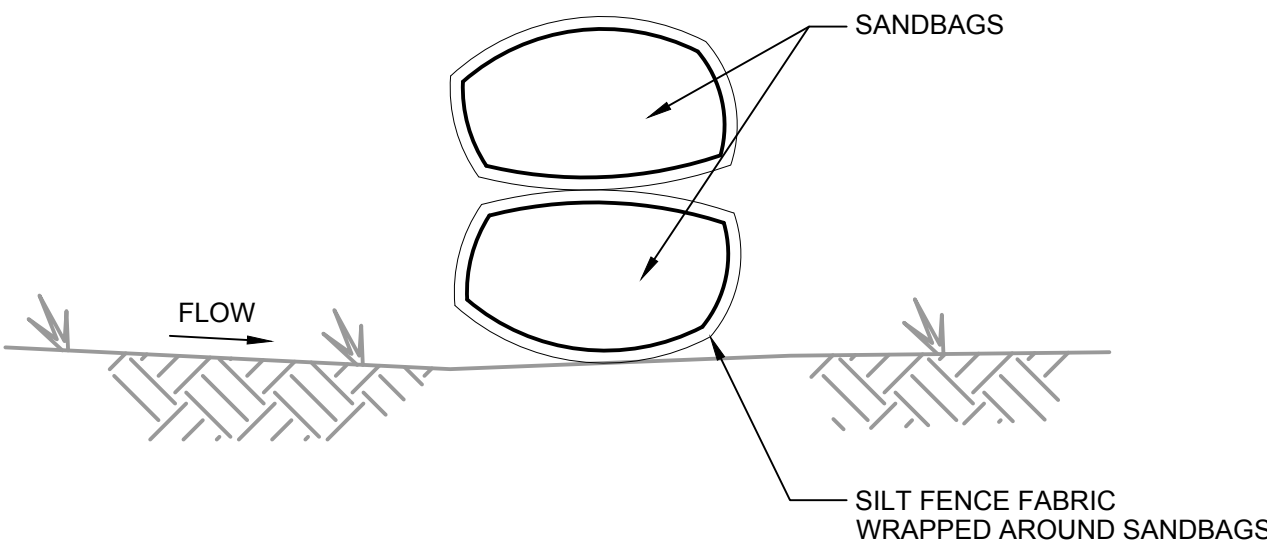
C1.1



SECTION A

SEDIMENT BARRIER

NOTE: GEOTEXTILE ENCASED CHECK DAMS (SEDIMENT BARRIERS) SHALL MEET THE REQUIREMENTS OF WSDOT STANDARD SPECIFICATIONS 8-01.3 (5) AND 9-14.5 (4).

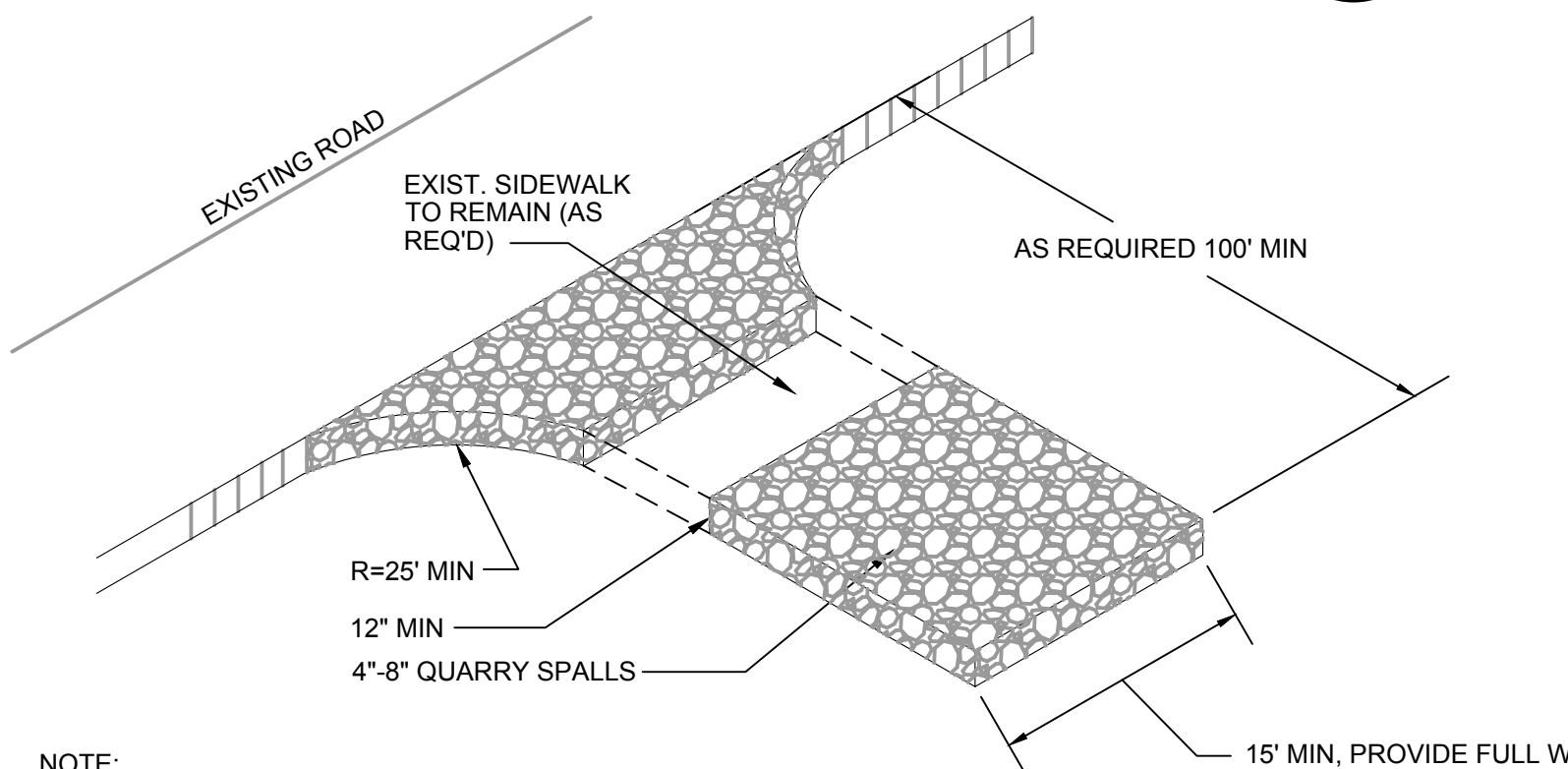


FABRIC-WRAPPED SANDBAG DETAIL

SCALE: NONE

4

C1.1



NOTE: CONTRACTOR SHALL INSTALL AND MAINTAIN STABILIZED CONSTRUCTION ENTRANCES AT ALL LOCATIONS WHERE VEHICLES TRAVERSE DIRT SURFACES PRIOR TO ENTERING PAVED PLANT ROADS.

CONSTRUCTION ENTRANCE DETAIL

SCALE: NONE

6

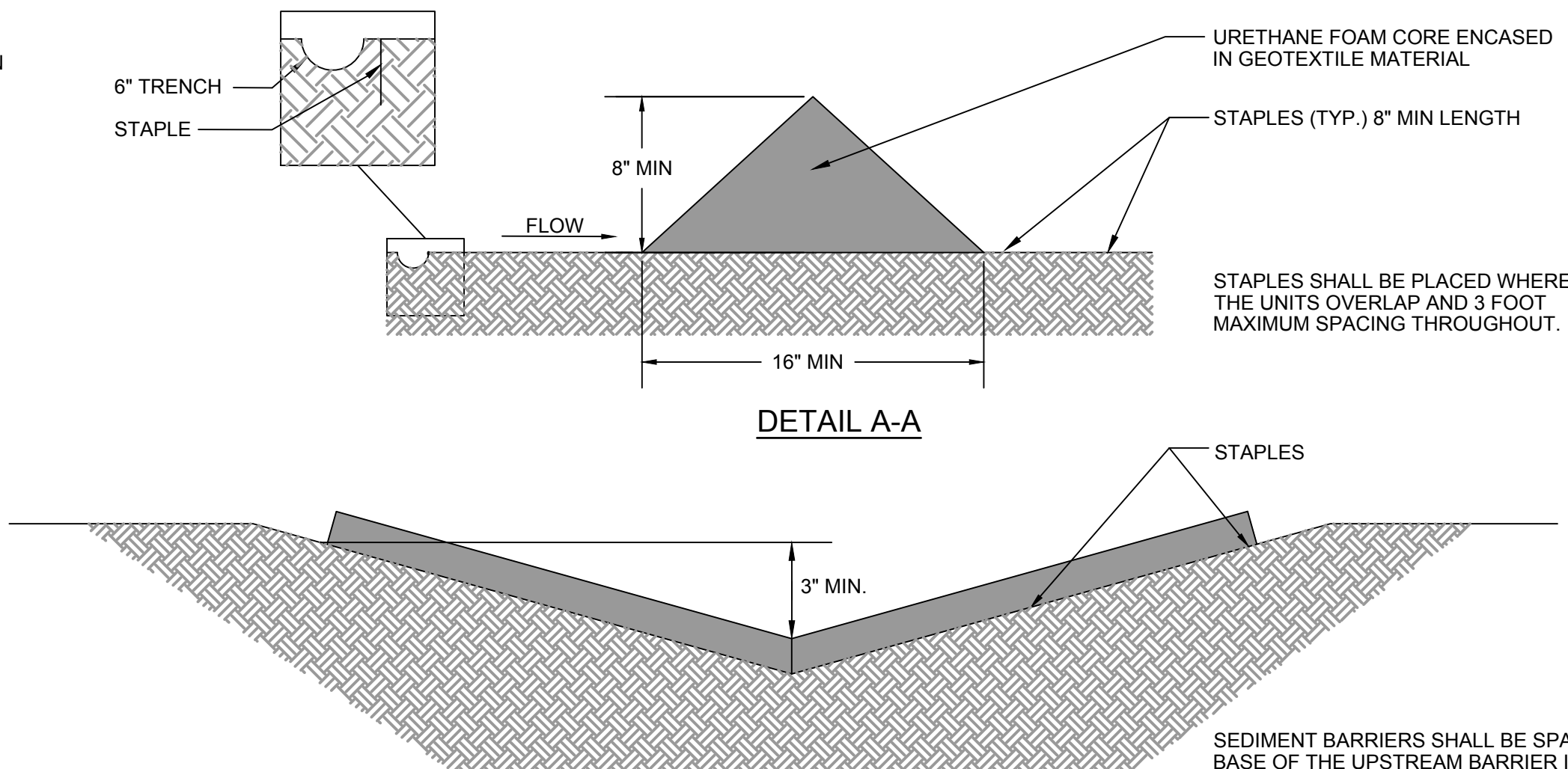
C1.1

SEDIMENT BARRIER DETAIL

SCALE: NONE

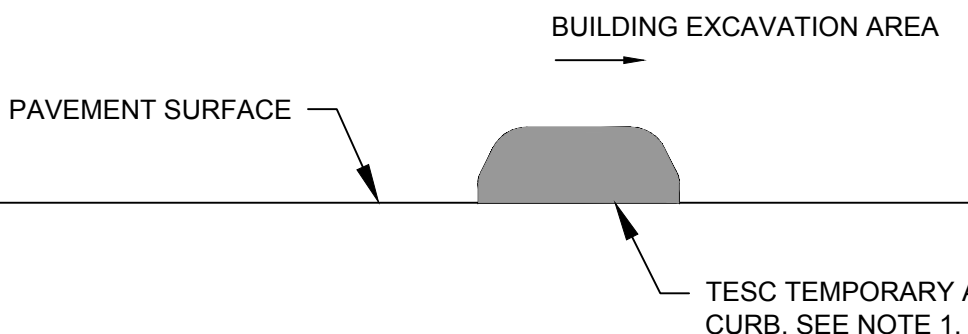
2

C1.1



DETAIL A-A

DETAIL B-B



NOTES

1. TEMPORARY AC CURB LOCATED PER PLAN SHEET.

TEMPORARY ASPHALT CURB

SCALE: NONE

7

C1.1

GENERAL NOTES:

CONDITIONS OF USE

1. PLASTIC COVERING MAY BE USED ON DISTURBED AREAS THAT REQUIRE COVER MEASURES FOR LESS THAN 30 DAYS.
2. PLASTIC IS PARTICULARLY USEFUL FOR PROTECTING CUT AND FILL SLOPES AND STOCKPILES. NOTE: THE RELATIVELY RAPID BREAKDOWN OF MOST POLYETHYLENE SHEETING MAKES IT UNSUITABLE FOR LONG-TERM APPLICATIONS.
3. CLEAR PLASTIC SHEETING MAY BE USED OVER NEWLY-SEEDED AREAS TO CREATE A GREENHOUSE EFFECT AND ENCOURAGE GRASS GROWTH. CLEAR PLASTIC SHOULD NOT BE USED FOR THIS PURPOSE DURING THE SUMMER MONTHS BECAUSE THE RESULTING HIGH TEMPERATURES CAN KILL THE GRASS.
4. DUE TO RAPID RUNOFF CAUSED BY PLASTIC SHEETING, THIS METHOD SHALL NOT BE USED UPSLOPE OF AREAS THAT MIGHT BE ADVERSELY IMPACTED BY CONCENTRATED RUNOFF. SUCH AREAS INCLUDE STEEP AND/OR UNSTABLE SLOPES.

DESIGN AND INSTALLATION SPECIFICATIONS

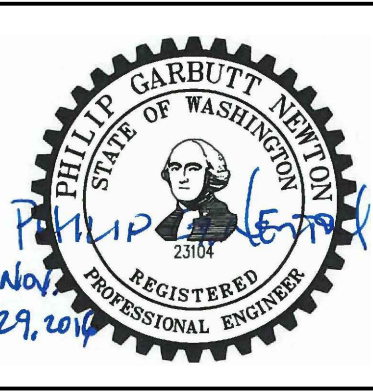
1. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 0.06 MILLIMETERS.
2. IF EROSION AT THE TOE OF A SLOPE IS LIKELY, A GRAVEL BERM, RIPRAP, OR OTHER SUITABLE PROTECTION SHALL BE INSTALLED AT THE TOE OF THE SLOPE IN ORDER TO REDUCE THE VELOCITY OF RUNOFF.

MAINTENANCE STANDARDS FOR PLASTIC COVERING

1. TORN SHEETS MUST BE REPLACED AND OPEN SEAMS REPAIRED.
2. IF THE PLASTIC BEGINS TO DETERIORATE DUE TO ULTRAVIOLET RADIATION, IT MUST BE COMPLETELY REMOVED AND REPLACED.
3. WHEN THE PLASTIC IS NO LONGER NEEDED, IT SHALL BE COMPLETELY REMOVED.
4. ENSURE THAT NO SHEETING COMES LOOSE AND BECOMES FOREIGN OBJECT DEBRIS.

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION  
BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services  
1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD** **EVERETT, WA**



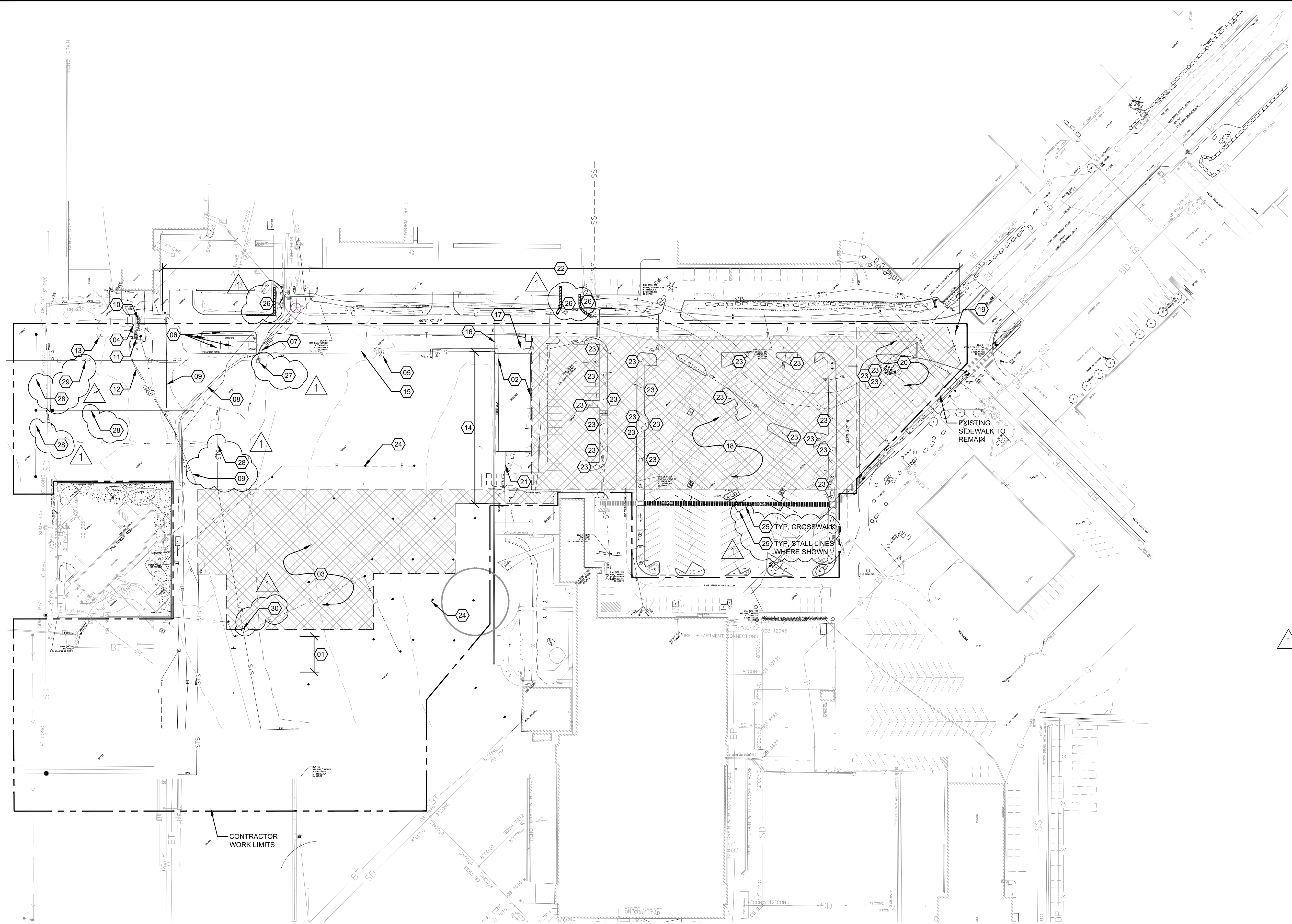
PROJECT TITLE:	PAINE FIELD PASSENGER TERMINAL
SHEET TITLE:	TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS
SCALE:	AS SHOWN
DATE:	NOVEMBER 29, 2016

PFN NO:	16-109244 LDA
FAA AIP NO:	
SHEET NO:	C1.1



DEMOLITION NOTES

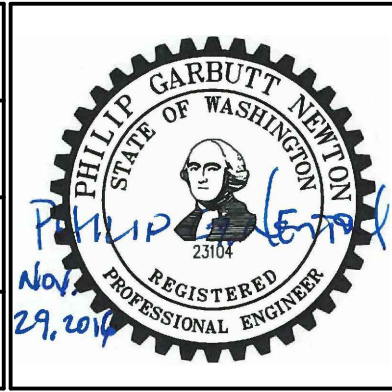
- 01 PLUG EXISTING TRENCH DRAIN AT LIMIT OF PAVING OVERLAY. FILL TRENCH DRAIN WITH PCC TO THE NORTH OF PLUG.
- 02 DEMOLISH STEEL FRAME SHED. FOUNDATION TO REMAIN.
- 03 ASPHALT DEMOLITION AND EXCAVATION FOR STRUCTURE. REFER TO ARCHITECTURAL.
- 04 REMOVE EXISTING CHAIN LINK GATE AND OPERATOR. RETURN TO PAE.
- 05 CONTRACTOR TO TAKE OWNERSHIP OF AND MAINTAIN APPROXIMATELY 475LF OF CHAIN LINK FENCE FOR USE AS CONSTRUCTION BARRIER. FENCE TO BE REMOVED AFTER CONSTRUCTION OF NEW AOA FENCES.
- 06 REMOVE EXISTING PICNIC TABLES, CURBS, SIDEWALK, SIGNS.
- 07 PRESERVE AND PROTECT EXISTING STORM STRUCTURE.
- 08 PRESERVE AND PROTECT EXISTING UNDERGROUND ELECTRICAL POWER, COMMUNICATIONS, AND GAS LINE.
- 09 RELOCATE EXISTING WATER LINE.
- 10 DEMOLISH EXISTING STREET LIGHT. RETURN TO AIRPORT.
- 11 REMOVE WATER METER AND RETURN TO SNOHOMISH COUNTY PUBLIC UTILITIES.
- 12 DEMOLISH EXISTING CONDUIT DUCT BANK.
- 13 RELOCATE FIRE HYDRANT AND VALVE.
- 14 DEMOLISH 186LF EXISTING TRENCH DRAIN . SEE STORM WATER PLAN FOR TIE-IN.
- 15 280LF OF 12" SD TO REMAIN BETWEEN CB 11148 AND CB 7865.
- 16 50LF 8" SD TO REMAIN.
- 17 DEMOLISH UTILITIES. CAP AS NECESSARY.
- 18 DEMOLISH ALL SURFACE FEATURES (LANDSCAPE, CURBS, SIGNS). LOCATE, CUT, AND CAP EXISTING IRRIGATION. PRESSURE TEST IRRIGATION SYSTEM AFTER DEMOLITION TO DETECT ANY LEAKS. PRESERVE AND PROTECT EXISTING PAVING TO THE GREATEST EXTENT POSSIBLE. PRESERVE AND PROTECT ALL EXISTING UTILITY STRUCTURES/FEATURES. OBLITERATE ALL EXISTING MARKING IN THIS AREA. SAWCUT FULL DEPTH AROUND ALL ISLANDS AT LEAST 12" AWAY FROM THE ISLAND, PRIOR TO DEMOLITION.
- 19 PRESERVE AND PROTECT EXISING UNDERGROUND TELEPHONE DUCTS, CABLING, AND ANY ASSOCIATED SURFACE FEATURES.
- 20 DEMOLISH CURBS, LANDSCAPING, IRRIGATION IN THIS AREA. LOCATE CUT, AND CAP EXISTING IRRIGATION. PRESSURE TEST IRRIGATION SYSTEM AFTER DEMOLITION TO DETECT ANY LEAKS. PRESERVE AND PROTECT ALL EXISTING UTILITY STRUCTURES/FEATURES. OBLITERATE ALL EXISTING MARKING IN THIS AREA. SOUTHERN LIMIT OF DEMOLITION IS AT THE EXISTING SIDEWALK.
- 21 DEMOLISH 45LF CHAIN LINK FENCE, GATE, ACCESS CONTROL EQUIPMENT, AND BOLLARDS. RETURN GATE AND ACCESS CONTROL EQUIPMENT TO PAE.
- 22 CONTRACTOR SHALL MAINTAIN ACCESS THROUGH 100TH ST SW AT ALL TIMES.
- 23 DEMOLISH EXISTING TREE (6"-12" CALIPER)
- 24 AIRCRAFT PARKING POSITION GROUNDING POINTS. ABANDON IN PLACE OR REMOVE AS NECESSARY FOR CONSTRUCTION.
- 25 OBLITERATE EXISTING PAVEMENT MARKING.
- 26 REMOVE CURB AND STOP SIGN.
- 27 PRESERVE ELECTRICAL VAULT.
- 28 REMOVE STORM LINE AND STRUCTURES.
- 29 REROUTE EXISTING DUCT BANK. REFER TO ELECTRICAL.
- 30 CAP STORM DRAIN, ABANDON REMAINDER IN PLACE.



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

DESIGNED:	PGN
DRAWN:	GF
CHECKED:	BO
APPROVED:	AC
	JS
	CT
	PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL

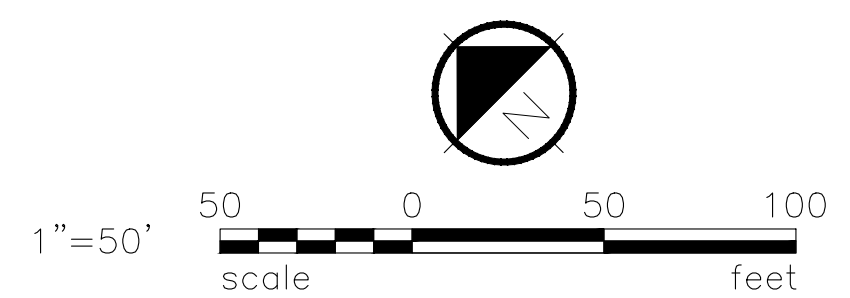
**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

PROJECT TITLE:	PAINE FIELD PASSENGER TERMINAL
SHEET TITLE:	DEMOLITION PLAN
SCALE:	AS SHOWN
DATE:	NOVEMBER 29, 2016

PFN NO:	16-109244 LDA
FAA AIP NO:	
SHEET NO:	C2.1

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL



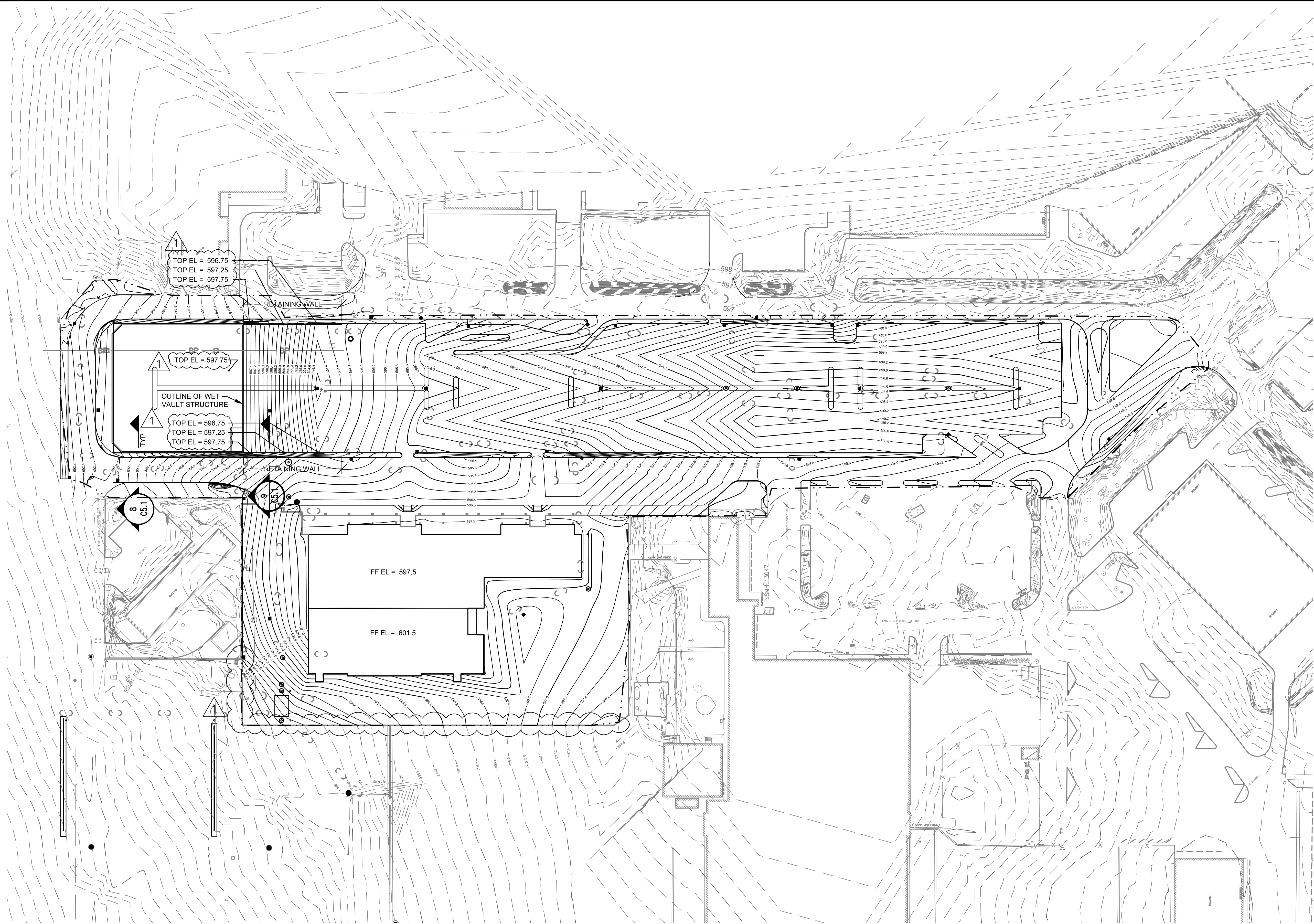


Snohomish County Planning & Development Services APPROVED FOR CONSTRUCTION  BY: _____ RANDOLPH R. SLEIGHT, P.E., P.L.S.  R/W PERMIT NO. _____	DESIGNED: PGN GF BO	 <b>AECOM</b> Airport Services 1111 Third Avenue, Floor 16 Seattle, Washington 98101 TEL: (206) 438-2700 FAX: (206) 438-2699	REVISION No. 1 REVISION DATE 11/29/16 DESCRIPTION LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL	 <b>SNOHOMISH COUNTY AIRPORT</b> <b>PAINE FIELD EVERETT, WA</b>  	PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL		PFN NO.: 16-109244 LDA	
	DRAWN: AC JS					SHEET TITLE: GEOMETRIC CONTROL PLAN	FAA AIP NO.:	
	CHECKED: CT					SCALE: AS SHOWN	DATE: NOVEMBER 29, 2016	SHEET NO.: <b>C3.0</b>
	APPROVED: PGN							



LEGEND:

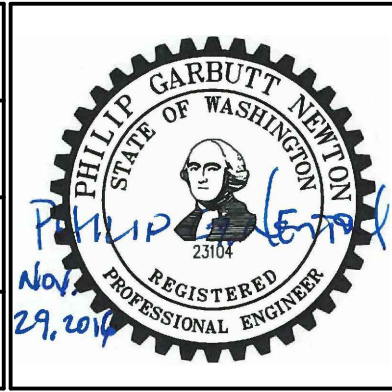
DESCRIPTION	SYMBOL	DETAIL	SHEET
PROPOSED MAJOR CONTOUR	20.0		
PROPOSED MINOR CONTOUR			
PROPOSED CLEARING/GRADING LIMIT			
EXISTING MAJOR CONTOUR	20.0		
EXISTING MINOR CONTOUR			



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services  
1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

propeller airports

PROJECT TITLE:	PAINE FIELD PASSENGER TERMINAL	
SHEET TITLE:	GRADING PLAN	
SCALE:	AS SHOWN	DATE: NOVEMBER 29, 2016

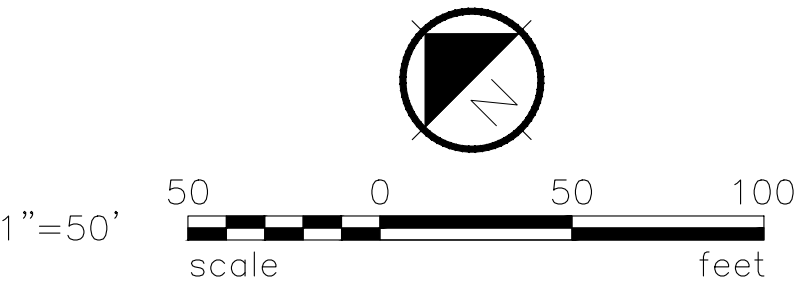
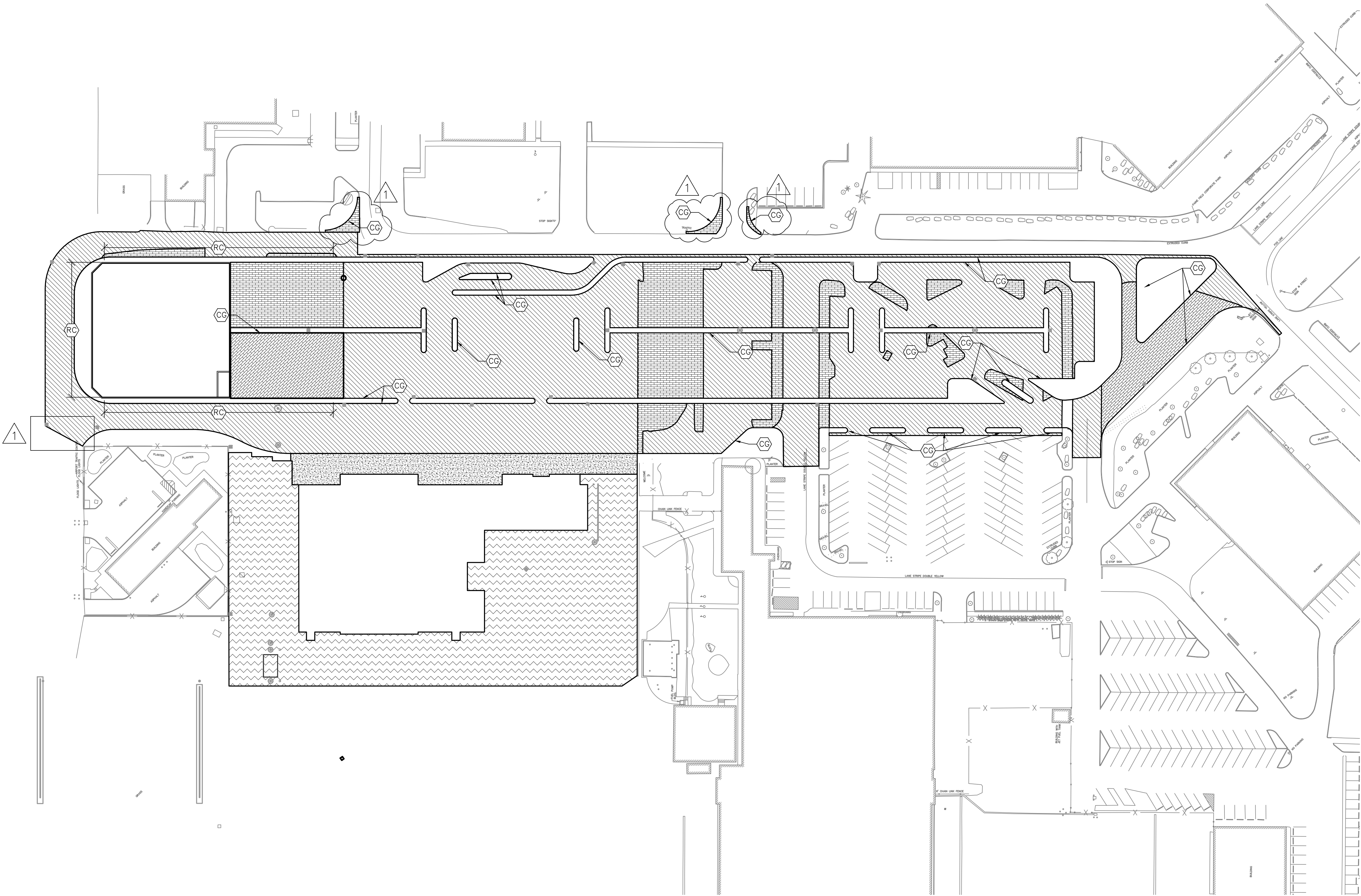
PFN NO:	16-109244 LDA
FAA AIP NO:	
SHEET NO:	C4.0

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL



LEGEND:

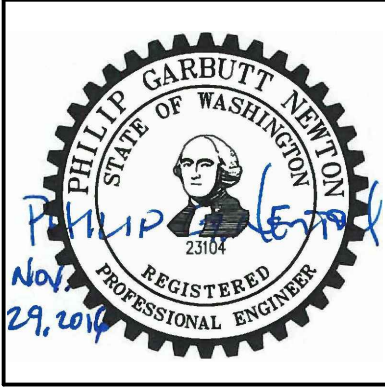
DESCRIPTION	DENOTATION	DETAIL	SHEET
LANDSIDE HMA PAVEMENT OVERLAY DETAIL		1	C5.1
LANDSIDE NEW HMA PAVEMENT DETAIL		2	C5.1
SIDEWALK PAVEMENT DETAIL		5	C5.1
AIRSIDE VARIABLE DEPTH HMA PAVEMENT OVERLAY		3	C5.1
STANDARD CURB & GUTTER DETAIL		6	C5.1
EXTRUDED CURB WITH REBAR DETAIL		7	C5.1



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

DESIGNED:	PGN
DRAWN:	GF
CHECKED:	BO
APPROVED:	AC
	JS
	CT
	PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL

**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

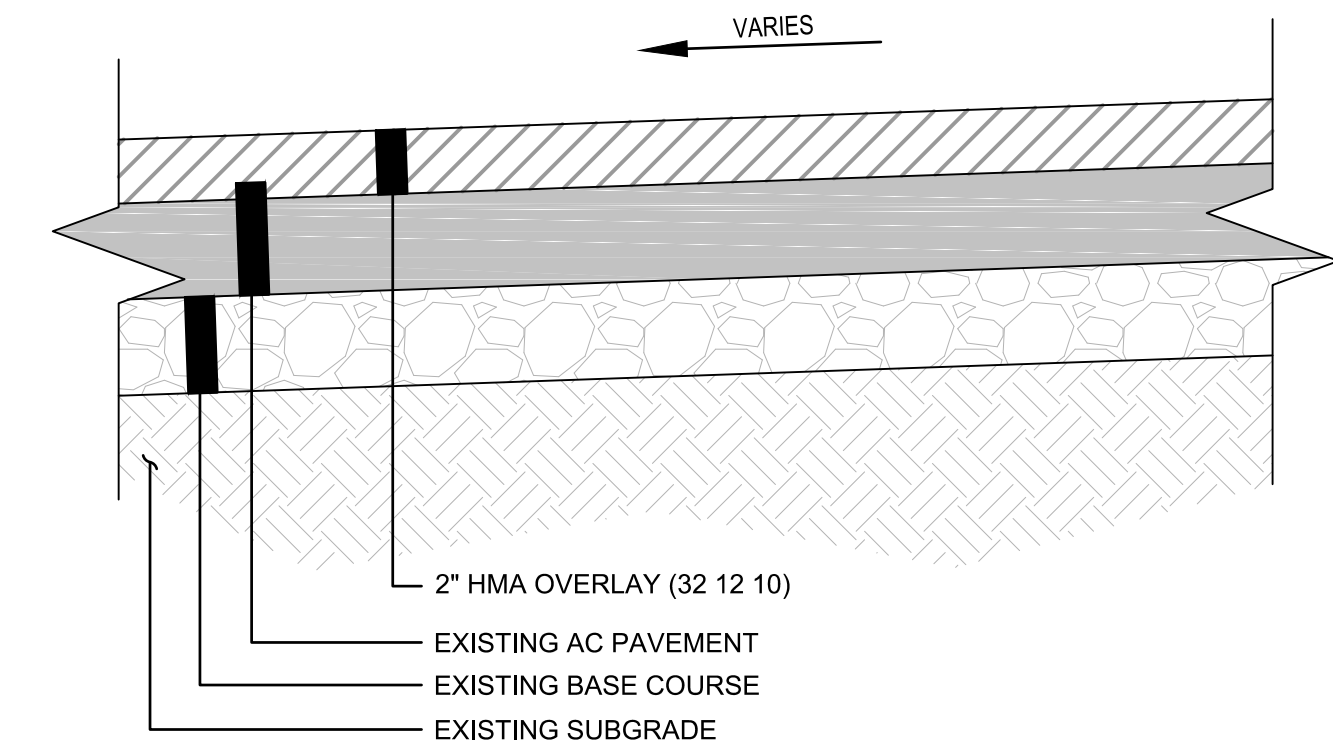
PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL	
SHEET TITLE: PAVING PLAN	
SCALE: AS SHOWN	DATE: NOVEMBER 29, 2016

PFN NO: 16-109244 LDA
FAA AIP NO.:
SHEET NO: <b>C5.0</b>

FILE NAME: C:\Box Sync\PAE Passenger Terminal Project\01 CAD\02 Sheets\C5.0 - Paving Plan.dwg PLOTTED: Wednesday, November 30, 2016 - 2:49pm USER: Jason.zhou1

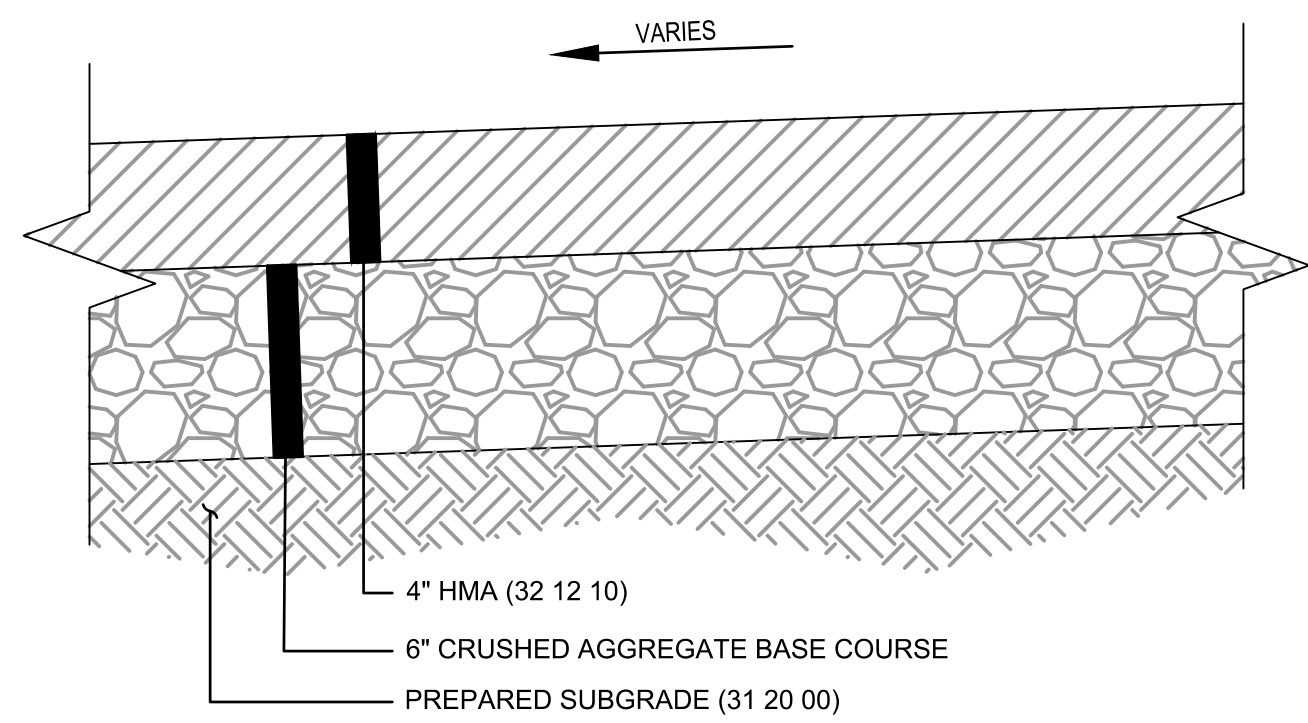
LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL





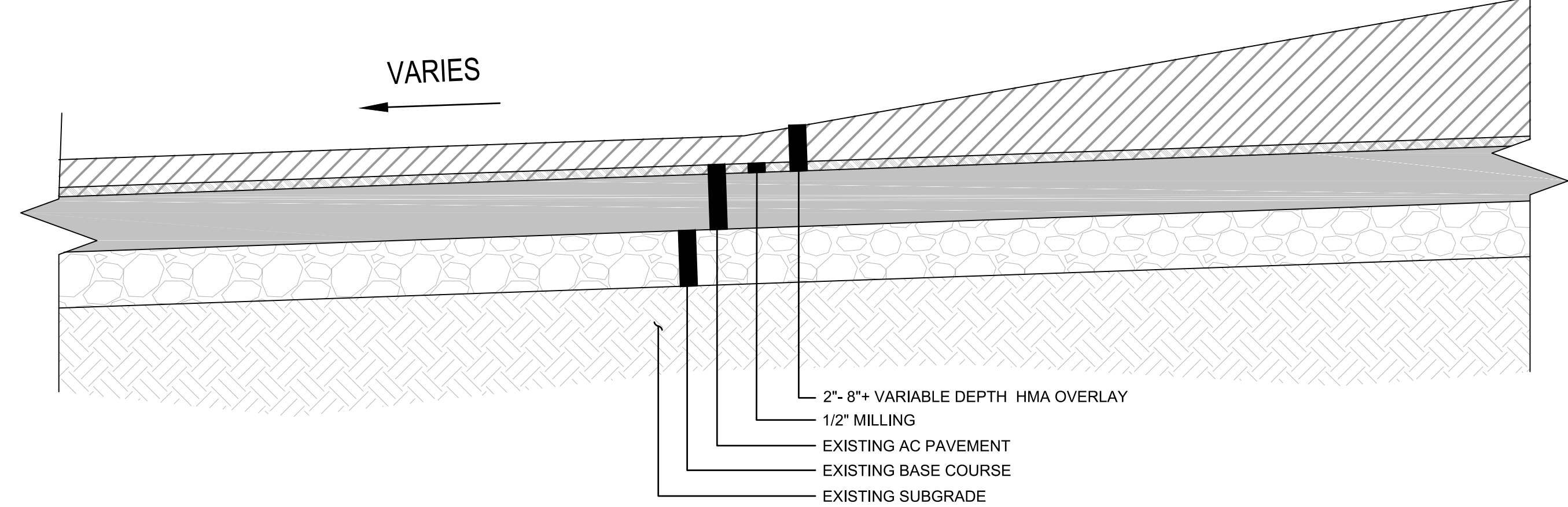
**LANDSIDE HMA PAVEMENT OVERLAY**  
SCALE: NONE

1  
C5.1



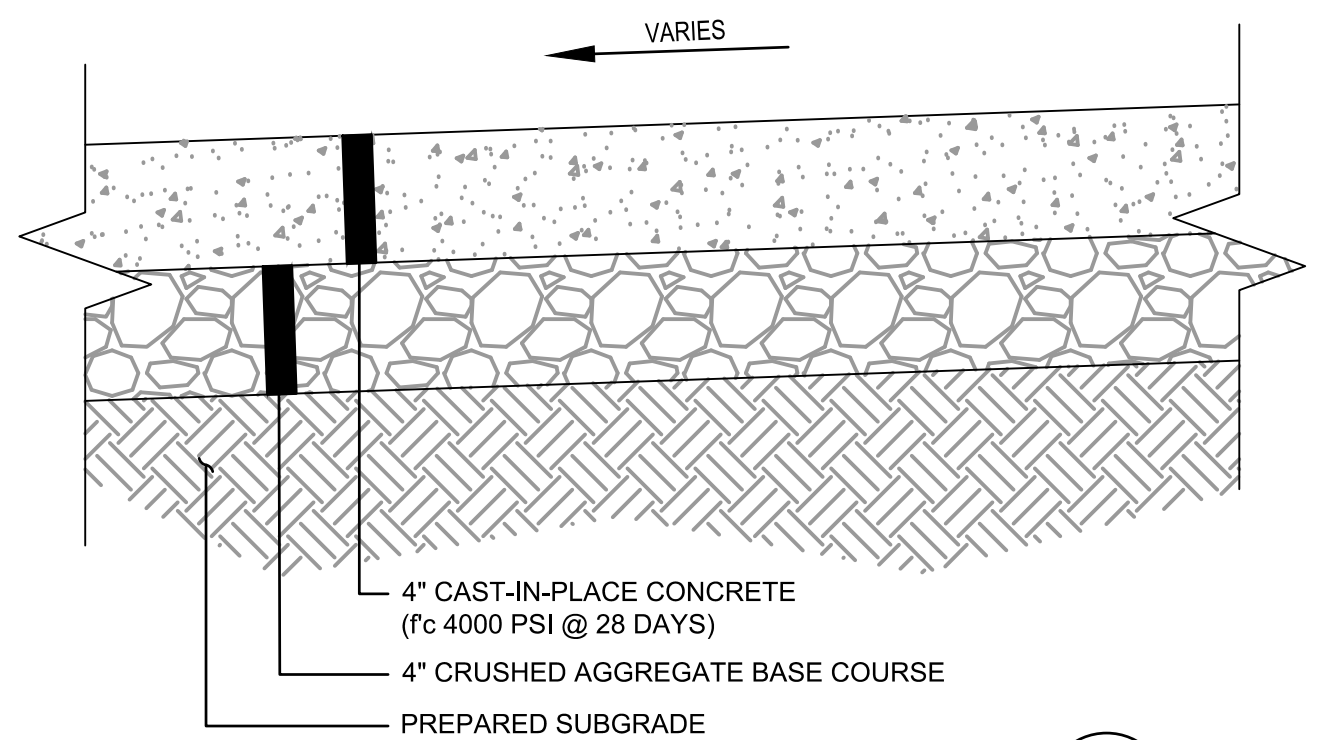
**LANDSIDE NEW HMA PAVEMENT**  
SCALE: NONE

2  
C5.1



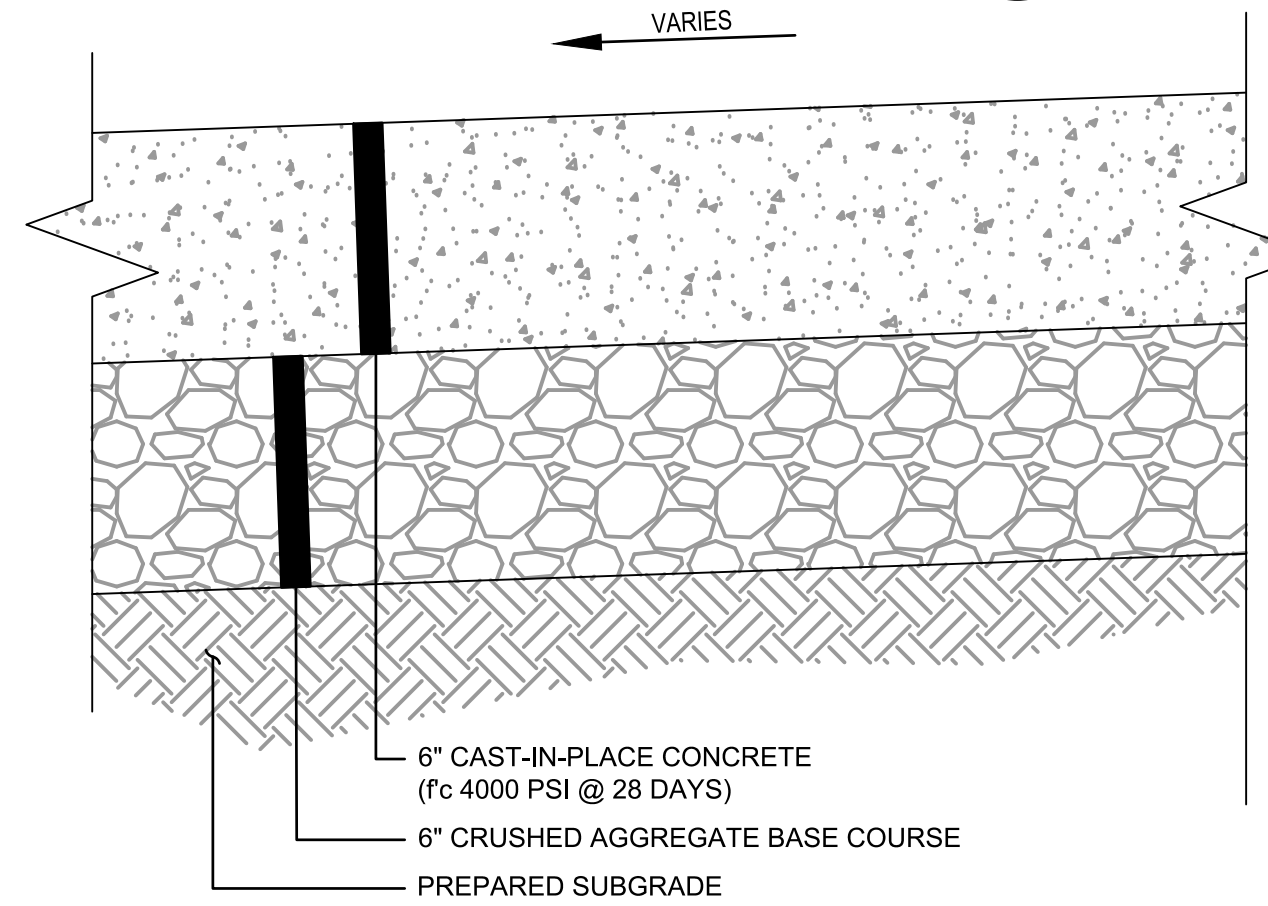
**AIRSIDE VARIABLE DEPTH HMA PAVEMENT OVERLAY**  
SCALE: NONE

3  
C5.1



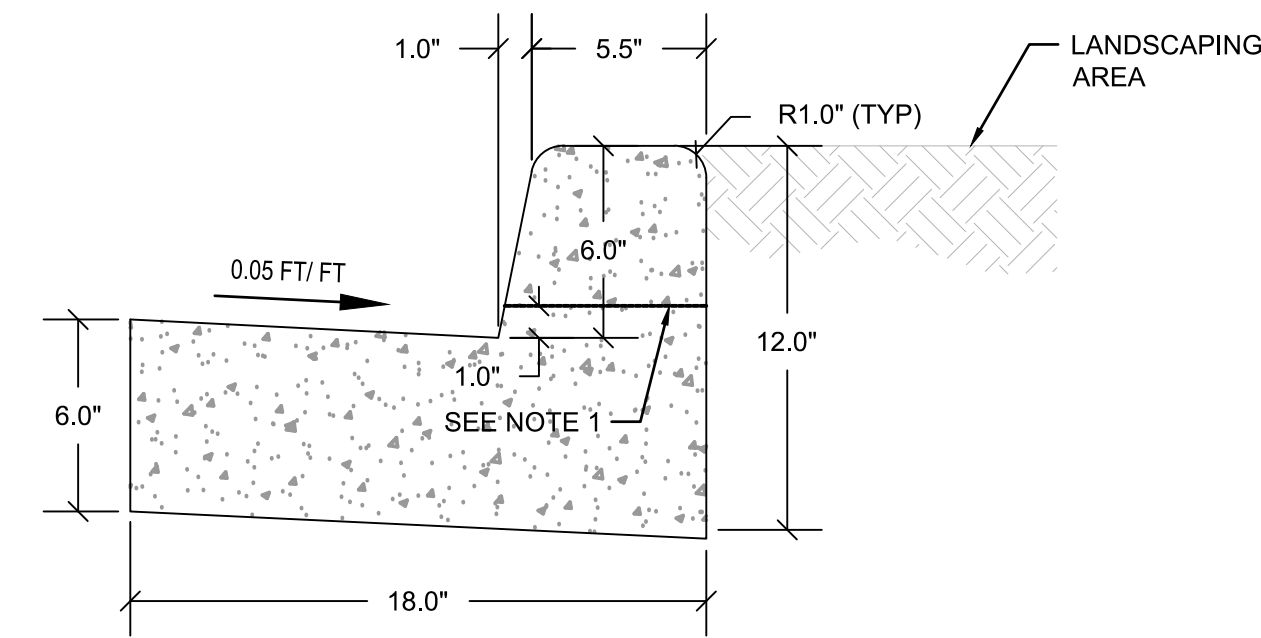
**SIDEWALK PAVEMENT**  
SCALE: NONE

4  
C5.1



**VEHICLE-RATED SIDEWALK PAVEMENT**  
SCALE: NONE

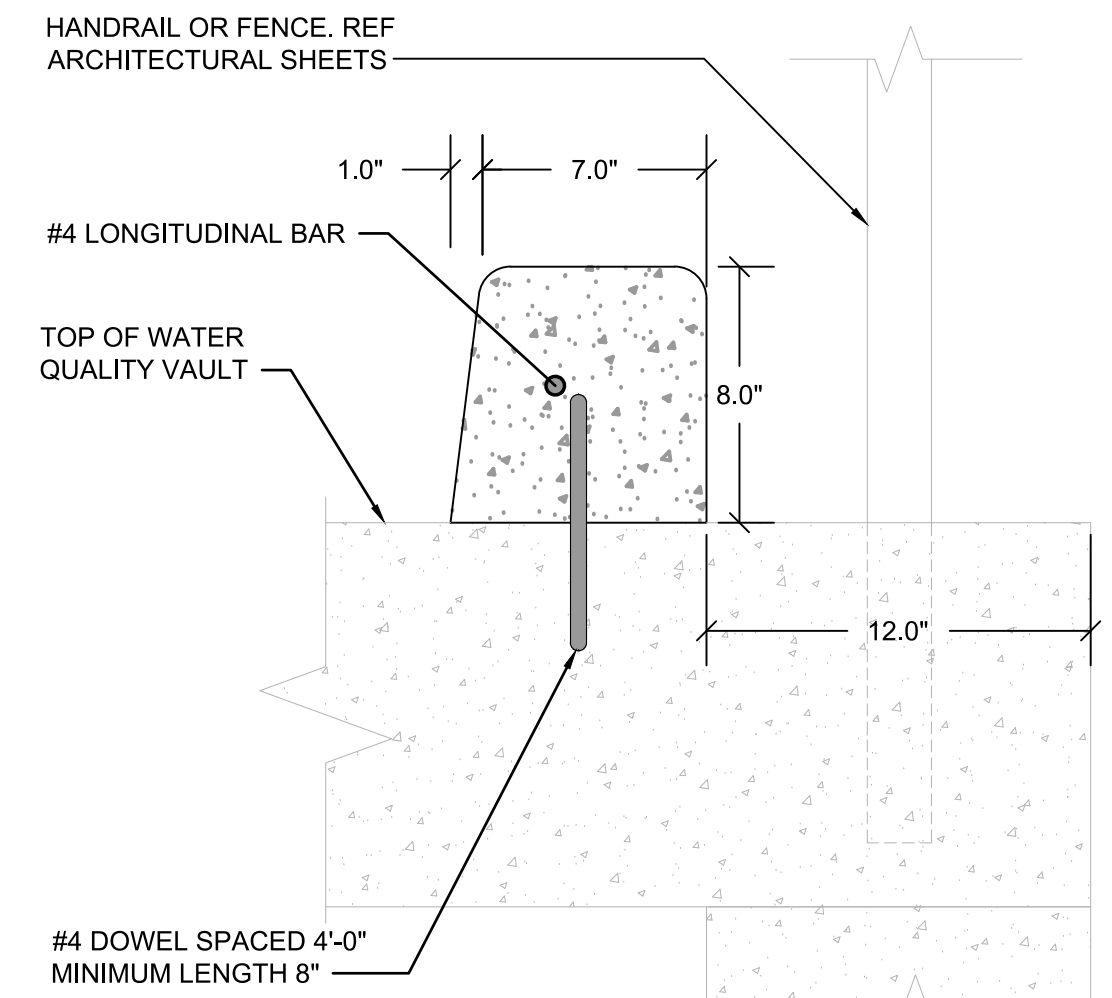
5  
C5.1



**DETAIL NOTES:**  
1. PROVIDE 3/8 IN. EXPANSION JOINTS ALONG CURB AT PC'S, PT'S AND AT MAXIMUM 10' O.C.

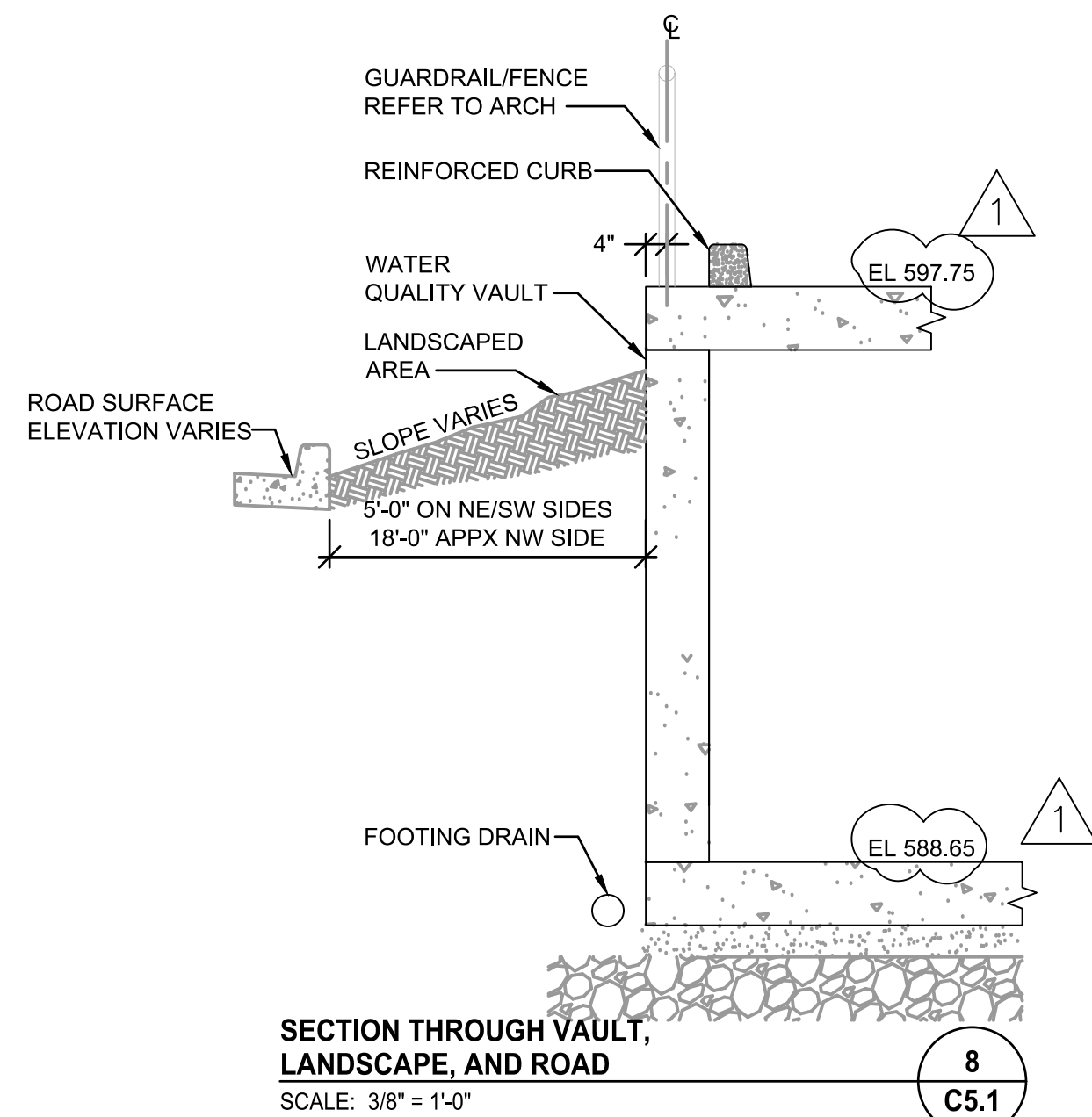
**STANDARD CURB AND GUTTER DETAIL**  
SCALE: NONE

6  
C5.1



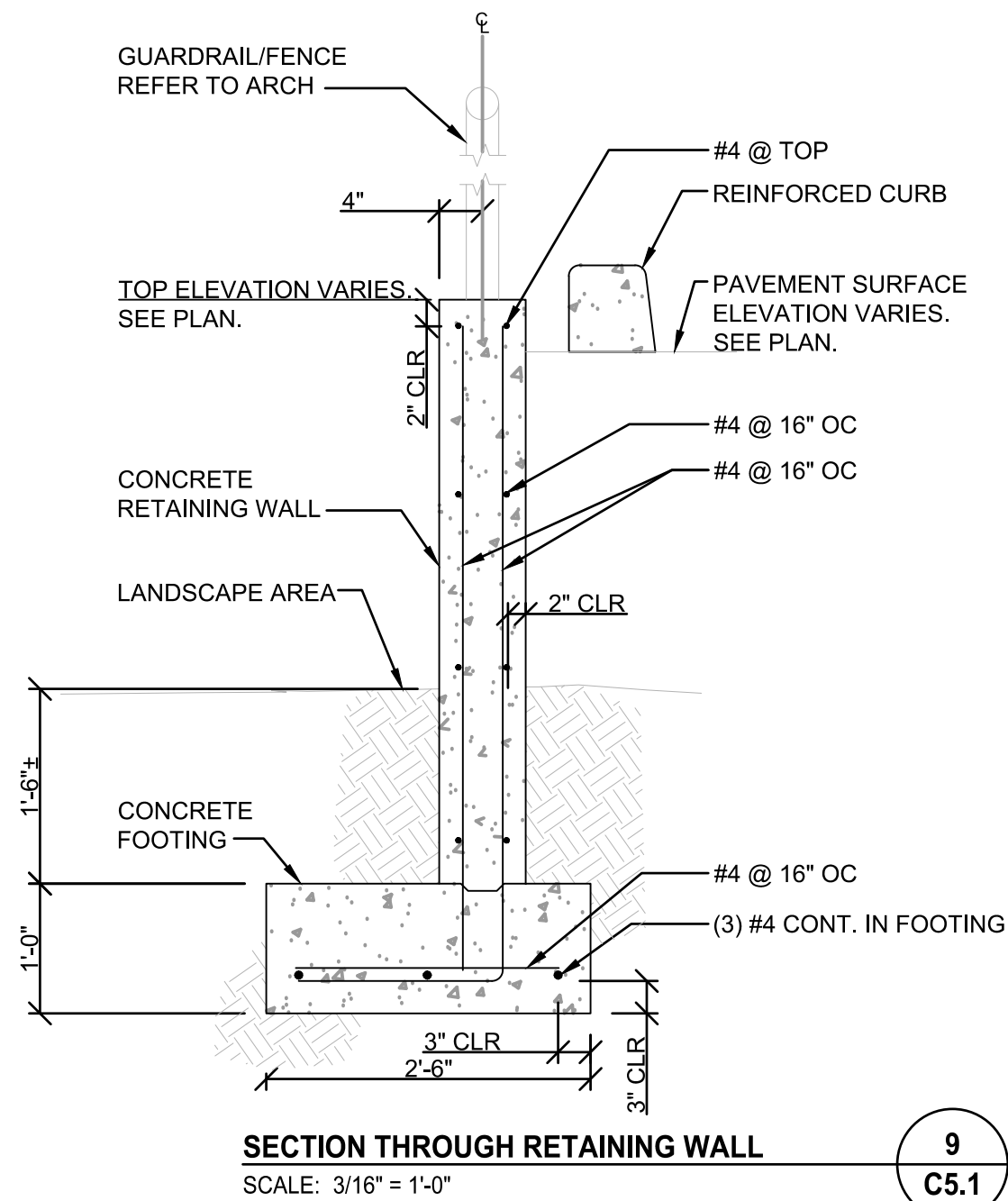
**EXTRUDED CURB WITH REBAR AT WATER DETENTION/WATER QUALITY VAULT**  
SCALE: NONE

7  
C5.1



**SECTION THROUGH VAULT, LANDSCAPE, AND ROAD**  
SCALE: 3/8" = 1'-0"

8  
C5.1



**SECTION THROUGH RETAINING WALL**  
SCALE: 3/16" = 1'-0"

9  
C5.1

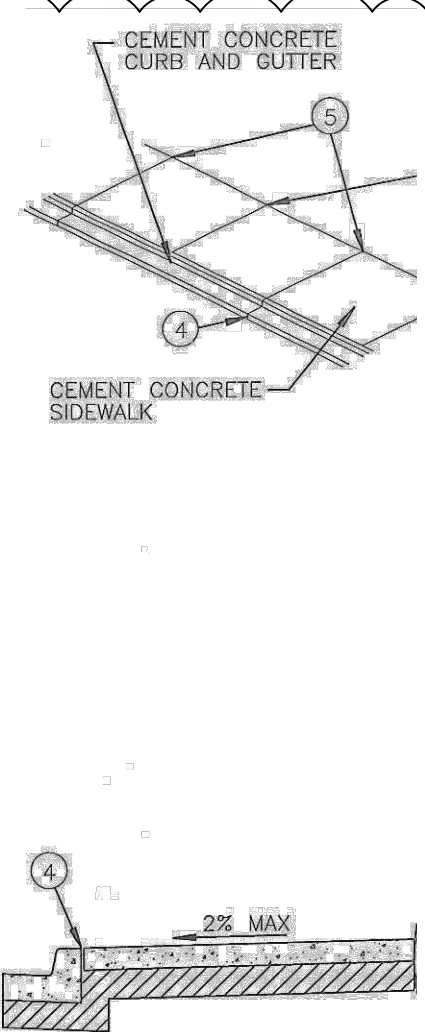
**NOTES:**

- CONSTRUCTION OF SIDEWALKS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION (WSDOT/APWA SPECIFICATIONS) UNLESS OTHERWISE MODIFIED BELOW.
- ALL CONCRETE SHALL BE COMMERCIAL CLASS CONCRETE PER WSDOT/APWA SPECIFICATIONS.
- FORMS SHALL BE TRUE TO LINE AND GRADE AND SECURELY STAKED. STEEL FORMS ONLY SHALL BE USED ON TANGENT SECTIONS. WOOD FORMS MAY BE USED ON CURVED SECTIONS.
- EXPANSION JOINTS CONSISTING OF 3/8" FULL DEPTH PREMOULDED JOINT MATERIAL SHALL BE PLACED AROUND FIRE HYDRANTS, POLES, METER BOXES AND OTHER OBSTRUCTIONS AND ALONG WALLS OR STRUCTURES IN PAVED AREAS. EXPANSION JOINTS SHALL ALSO BE PLACED AT THE BEGINNING AND THE END OF EACH CURVE, ON EACH SIDE OF STRUCTURES, DROP CURB DRIVEWAYS AND CURB RAMPS, BETWEEN SIDEWALK AND BACK OF CURB WHEN POURED SEPARATELY, AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. FULL EXPANSION JOINTS SHALL GENERALLY BE PLACED TO MATCH THOSE PLACED IN ADJACENT CURB WITH A MAXIMUM SPACING OF 20 FEET.
- CONTRACTION JOINTS (DUMMY JOINTS) CONSISTING OF 3/8" X 2" OF PREMOULDED JOINT MATERIAL SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10 FEET. WHEN SIDEWALKS ARE PLACED BY SLIP-FORMING, A PREMOULDED STRIP OF 3/8" THICK AND UP TO FULL DEPTH MAY BE USED. CONTRACTION JOINTS (DUMMY JOINTS) IN SIDEWALKS SHALL BE LOCATED SO AS TO MATCH THE JOINTS IN THE CURB WHETHER SIDEWALK IS ADJACENT TO CURB OR SEPARATED BY A PLANTING STRIP. JOINT SEALANTS FOR SAWED CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF SECTION 9-04.2 OF THE WSDOT/APWA SPECIFICATIONS.
- ALL JOINTS SHALL BE CLEAN AND EDGED.
- CEMENT CONCRETE SIDEWALK THICKNESS IS SPECIFIED IN TEXT SECTION 4-056. SEE ALSO STANDARD DRAWINGS 2-020 AND 2-025 FOR DRIVEWAY DETAILS.
- THE WIDTH OF SIDEWALK SHALL BE 5 FEET MIN. FOR SINGLE FAMILY RESIDENTIAL PROPERTY USES AND 7 FEET MIN. FOR COMMERCIAL/INDUSTRIAL AND MULTI-FAMILY RESIDENTIAL PROPERTY USES.
- SCORE MARKS, 1/4" DEEP, ARE TO BE PLACED ON 5 FOOT CENTERS, AND TO CORRESPOND TO THE MARKINGS IN EXISTING SIDEWALKS. WHEN THE SIDEWALK WIDTH EXCEEDS 6 FEET, A LONGITUDINAL SCORE AT THE CENTER OF THE SIDEWALK SHALL BE PROVIDED.
- FINISH SHALL BE A LIGHT BROOM FINISH.
- 6 INCHES OF GRAVEL BORROW OR EQUIVALENT. SEE STANDARD DRAWINGS 3-020, 3-050 AND SECTION 4-10.
- SUBGRADE COMPACTION FOR SIDEWALKS SHALL MEET A MINIMUM 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH SEC. 2-03.3(14) OF THE WSDOT/APWA SPECIFICATIONS.
- PLANTER STRIPS REQUIRED BUT NOT SHOWN. SEE STANDARD DRAWINGS 3-020 AND 3-050 FOR LOCATION OF PLANTERS.

SEE TEXT SECTION 4-05. (SNOHOMISH COUNTY EDDS MANUAL)

**SNOHOMISH COUNTY TYPICAL SIDEWALK SECTION**  
SCALE: 3/16" = 1'-0"

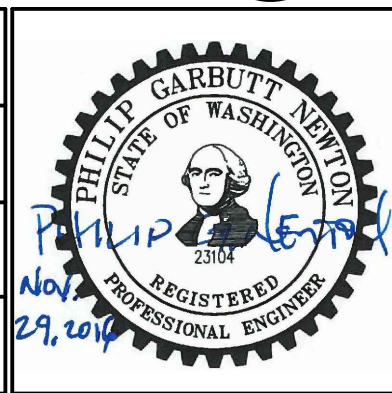
10  
C5.1



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

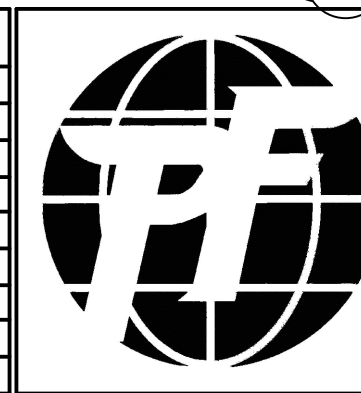
BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services  
1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

propeller airports

PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL

SHEET TITLE: TYPICAL PAVEMENT SECTIONS

SCALE: AS SHOWN

DATE: NOVEMBER 29, 2016

PFN NO.: 16-109244 LDA

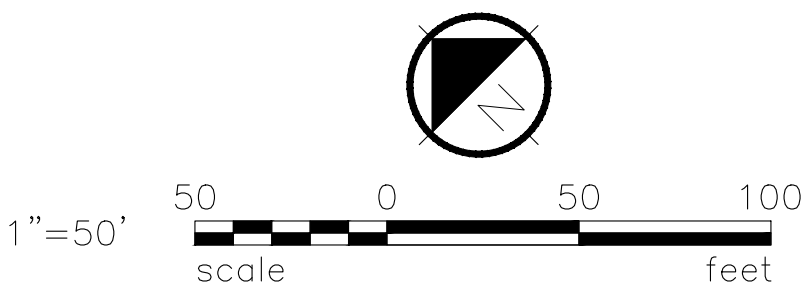
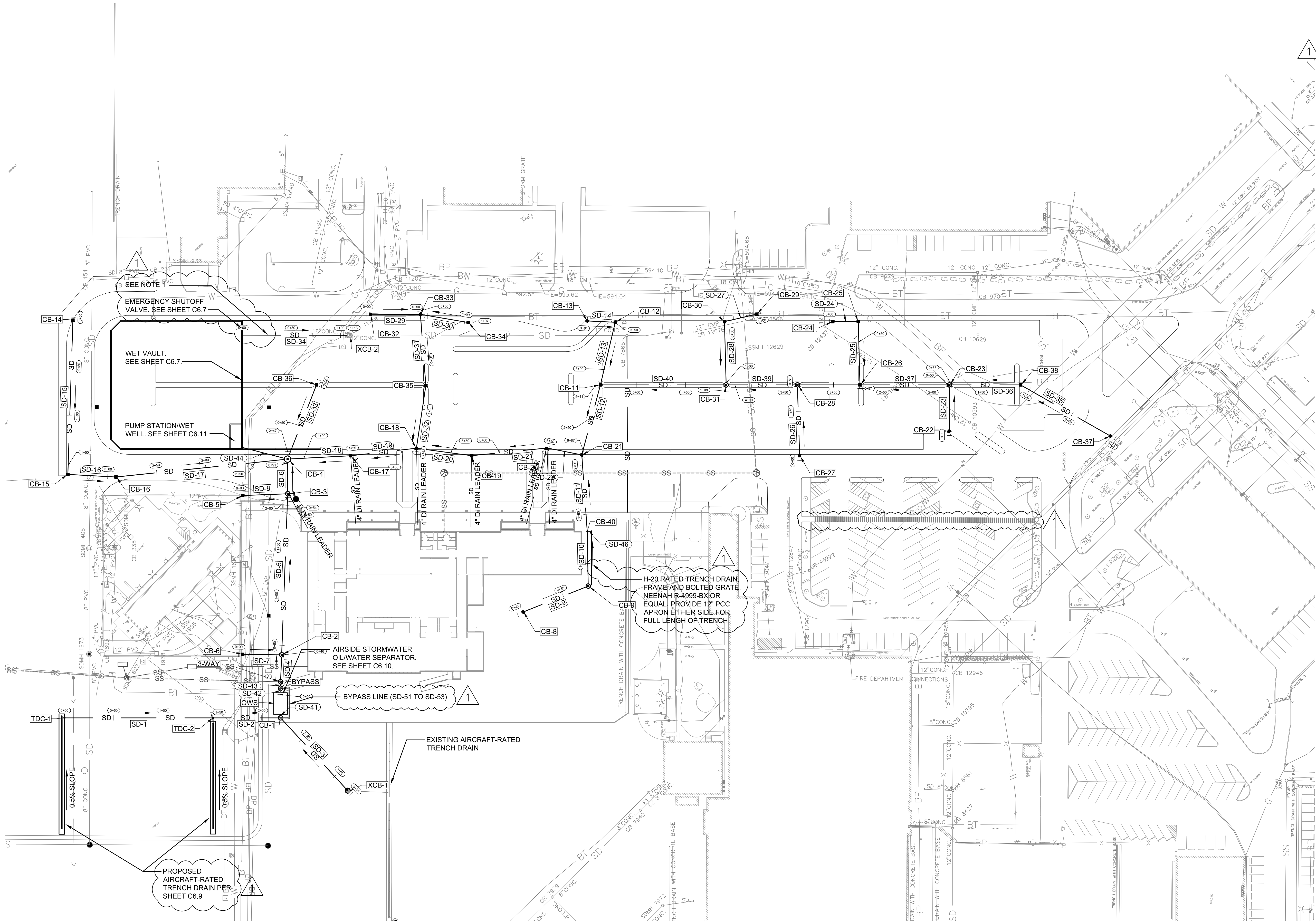
FAA AIP NO.:

SHEET NO.: **C5.1**



NOTES

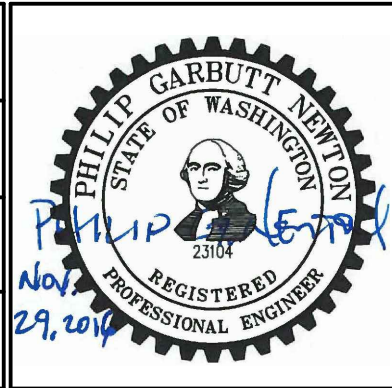
1. PROVIDE 9" - 12" CONTROLLED DENSITY FILL OVER PIPE FOR ENTIRE LENGTH OF PIPE.
2. REFER TO SHEET C6.4 FOR STORM STRUCTURE AND PIPE TABLES.



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

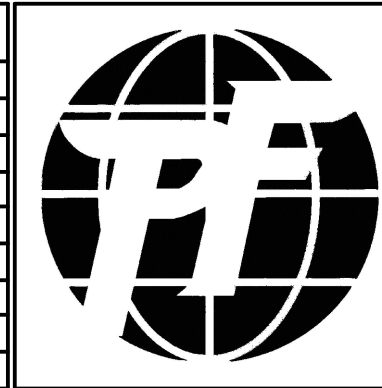
BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services  
1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

propeller airports

PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL

SHEET TITLE: DRAINAGE PLAN

SCALE: AS SHOWN

DATE: NOVEMBER 29, 2016

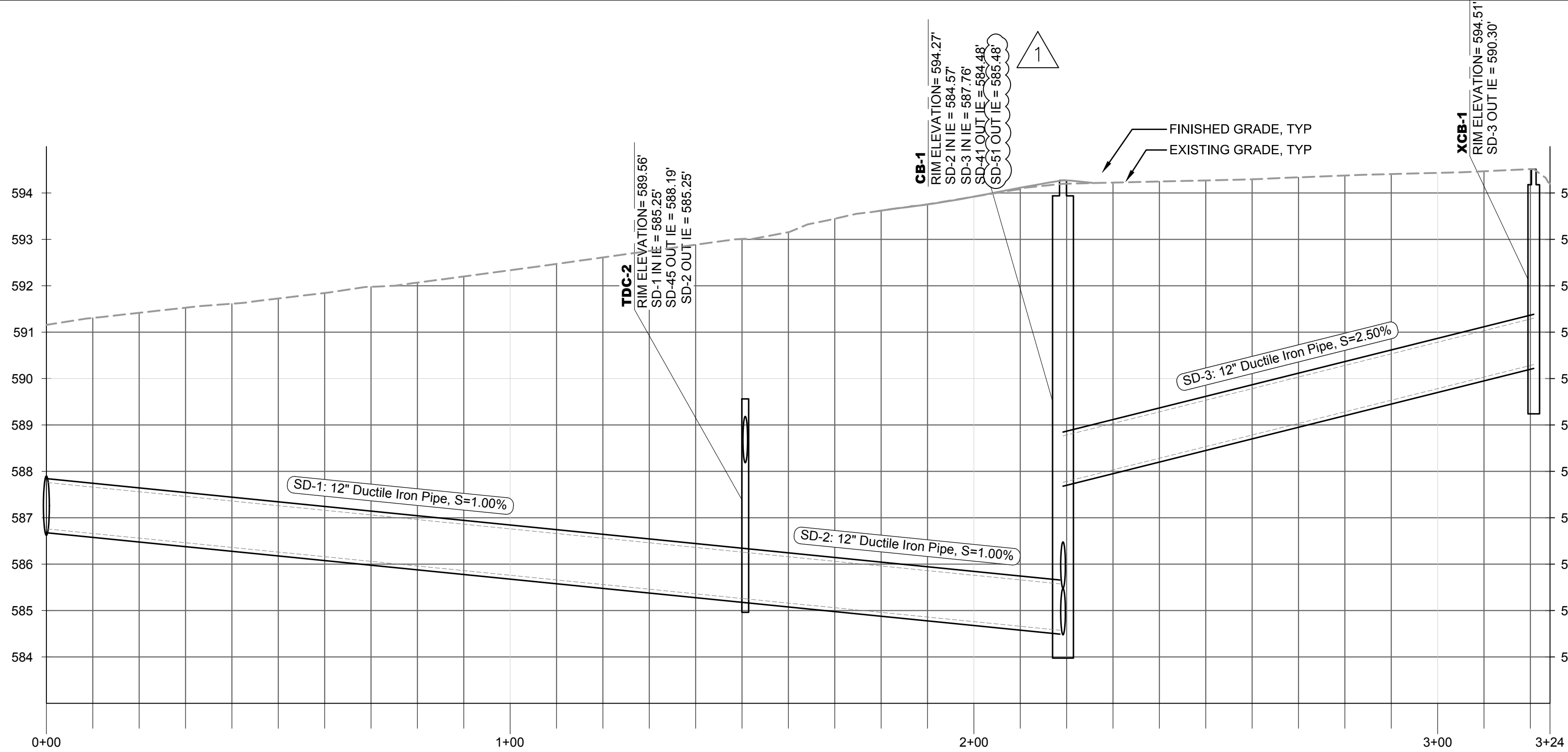
PFN NO: 16-109244 LDA

FAA AIP NO: \_\_\_\_\_

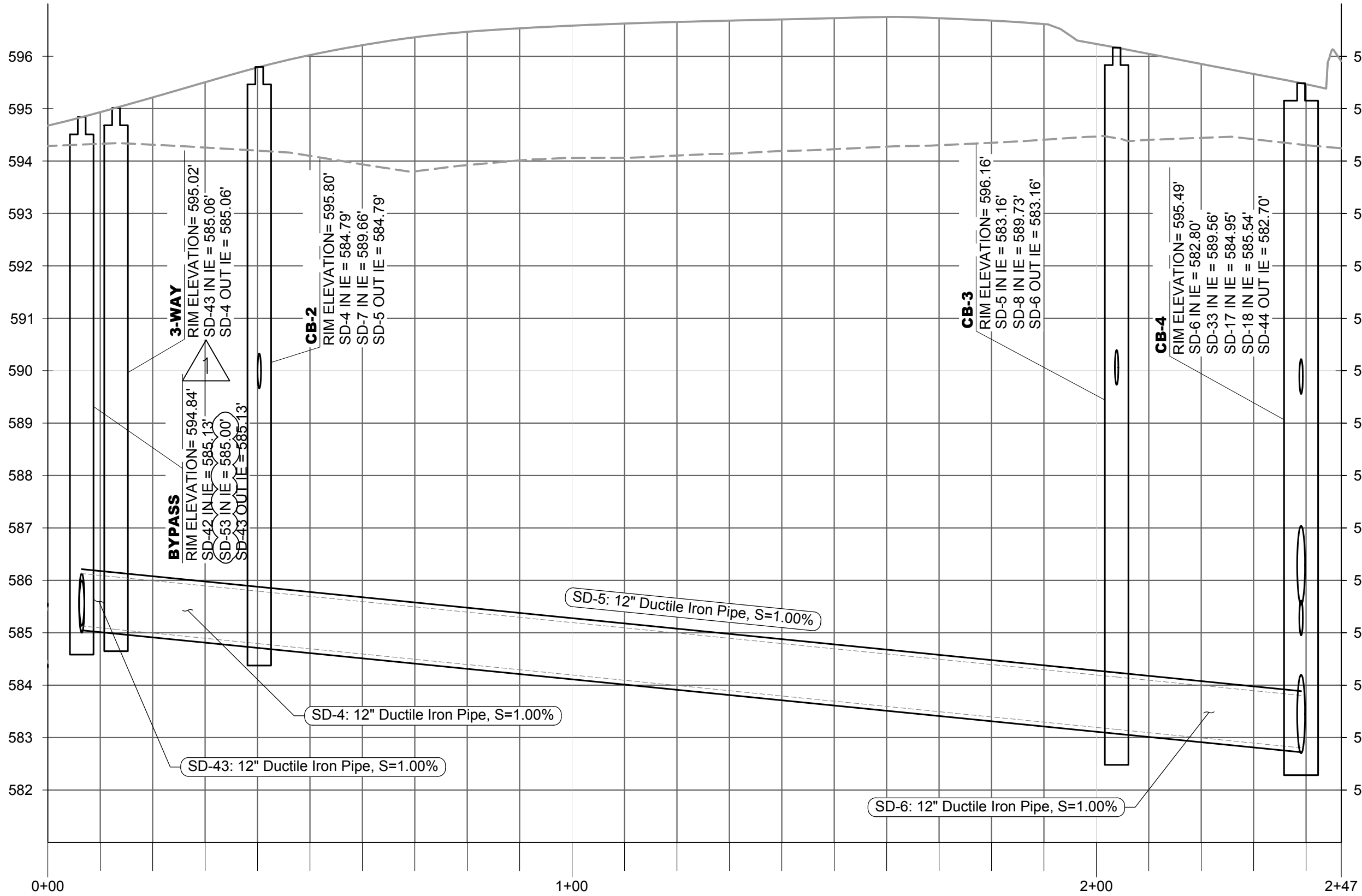
SHEET NO: **C6.0**

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL

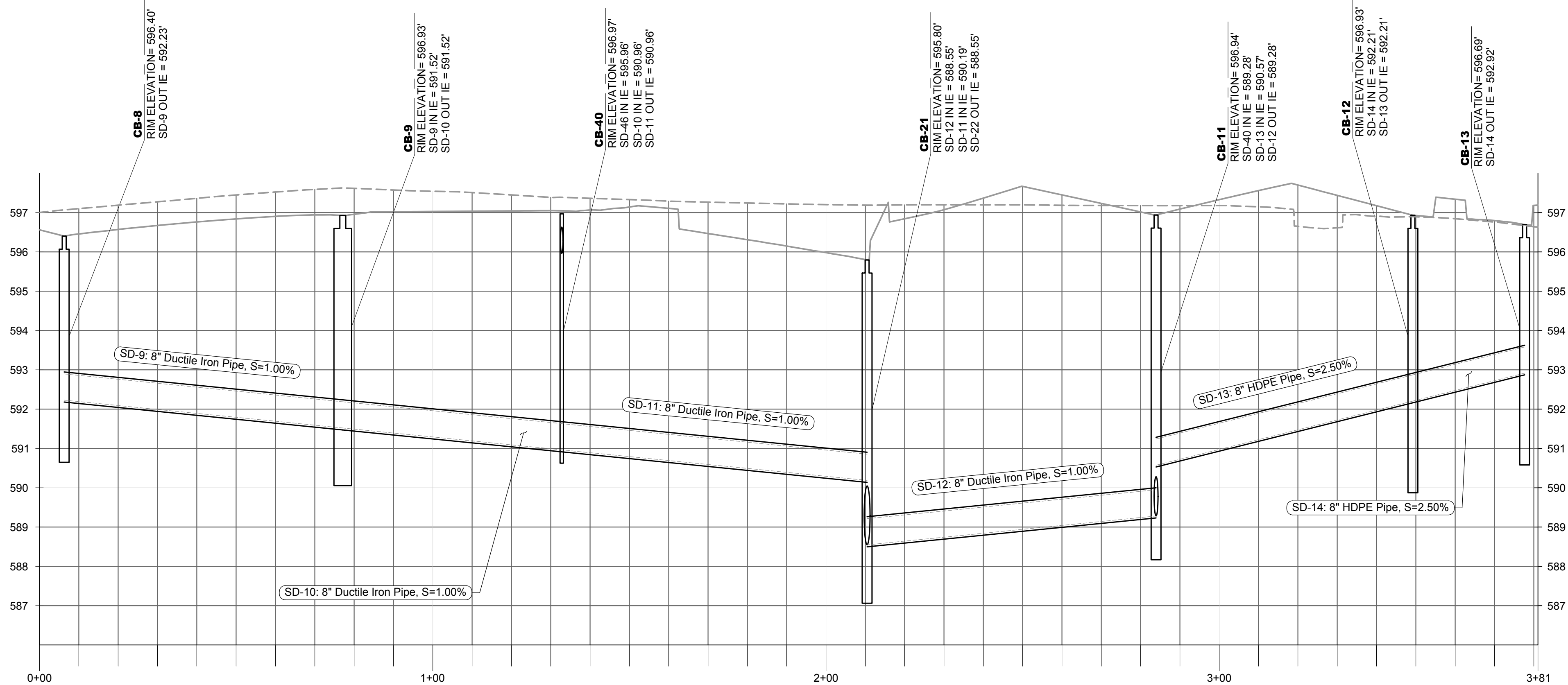




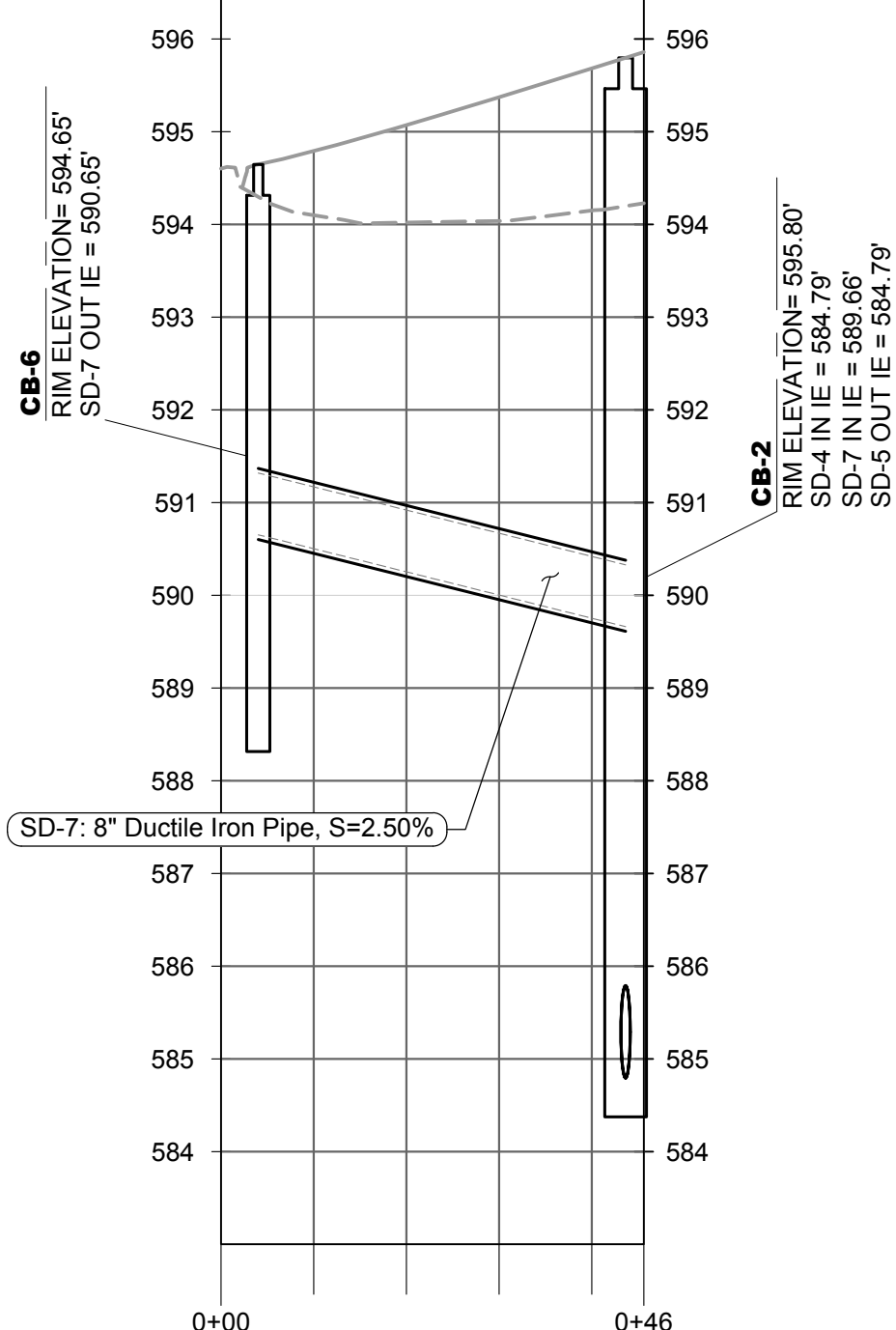
AIRSIDE WEST 1 PROFILE



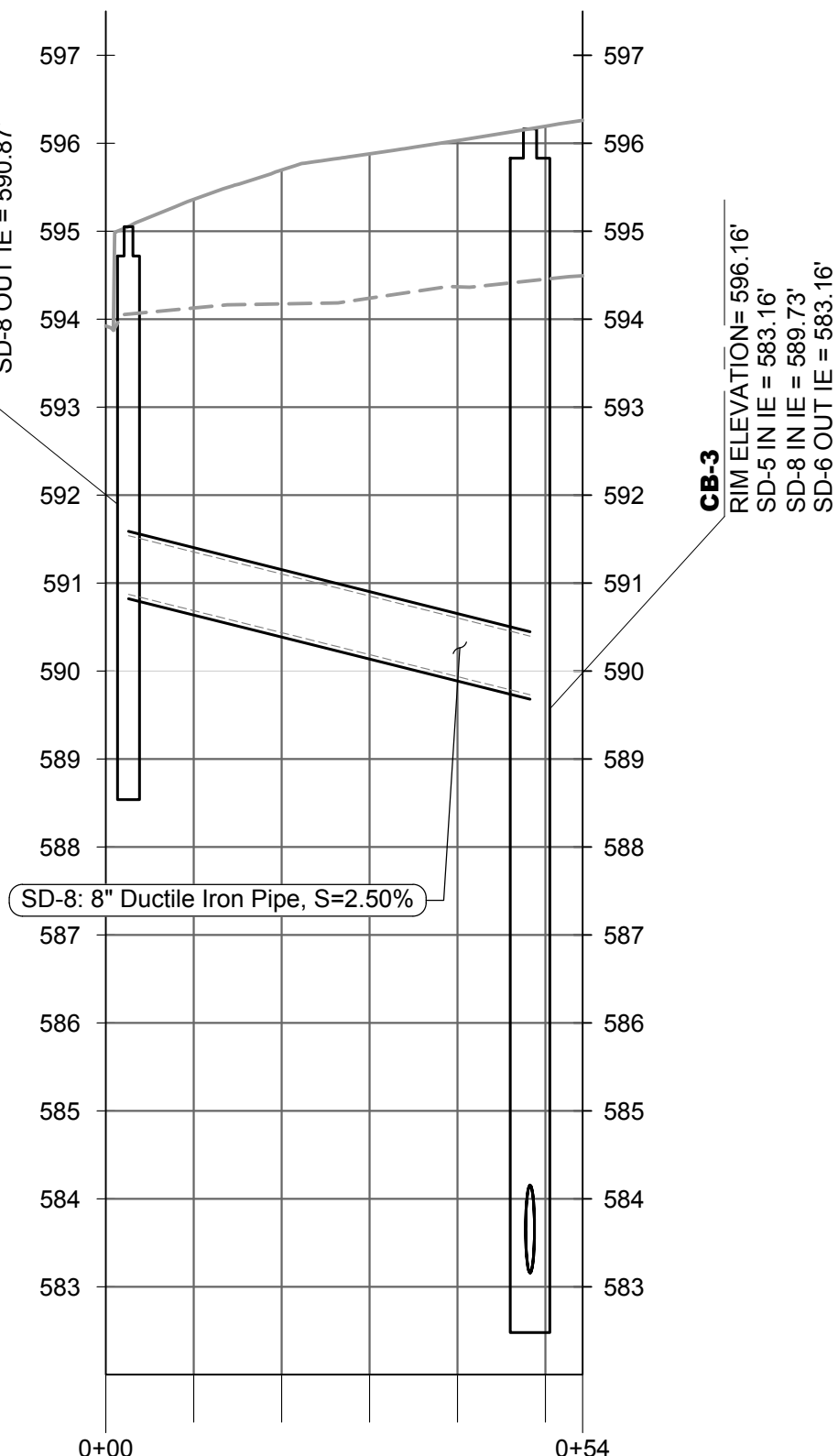
AIRSIDE WEST 2 PROFILE



AIRSIDE-LANDSIDE NORTH SOUTH PROFILE



AIRSIDE LATERAL 1 PROFILE



AIRSIDE LATERAL 2 PROFILE

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.

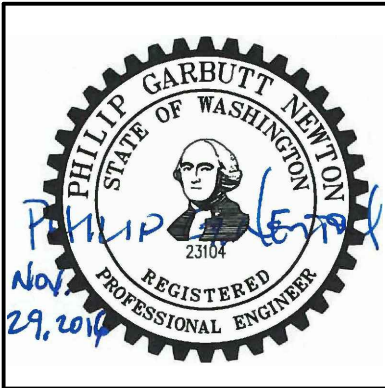
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO

DRAWN: AC  
JS

CHECKED: CT

APPROVED: PGN




**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**



PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL

SHEET TITLE: DRAINAGE PROFILES 1

SCALE: AS SHOWN

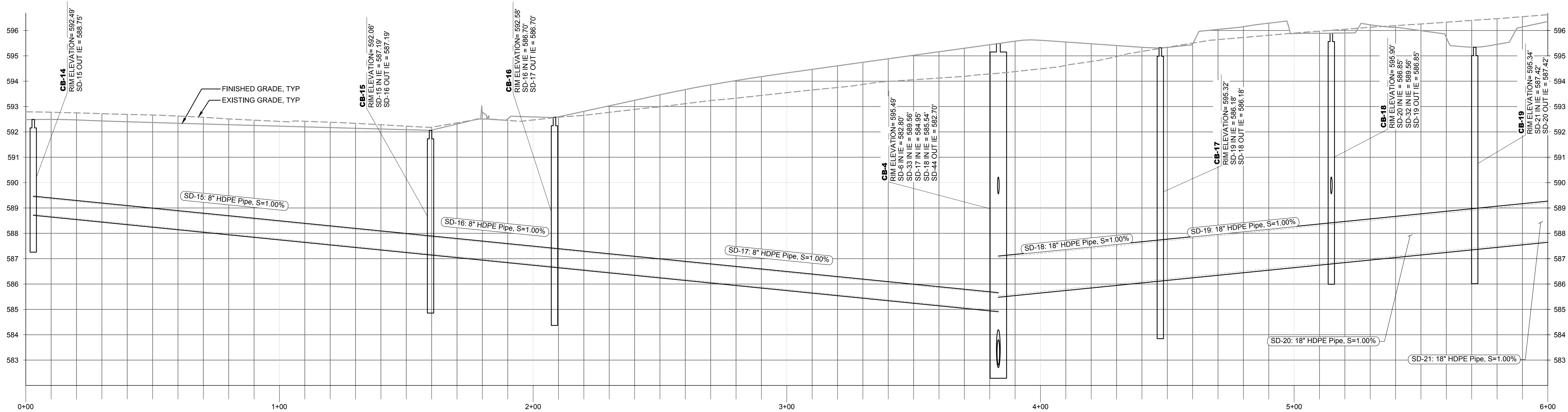
DATE: NOVEMBER 29, 2016

PFN NO.: 16-109244 LDA

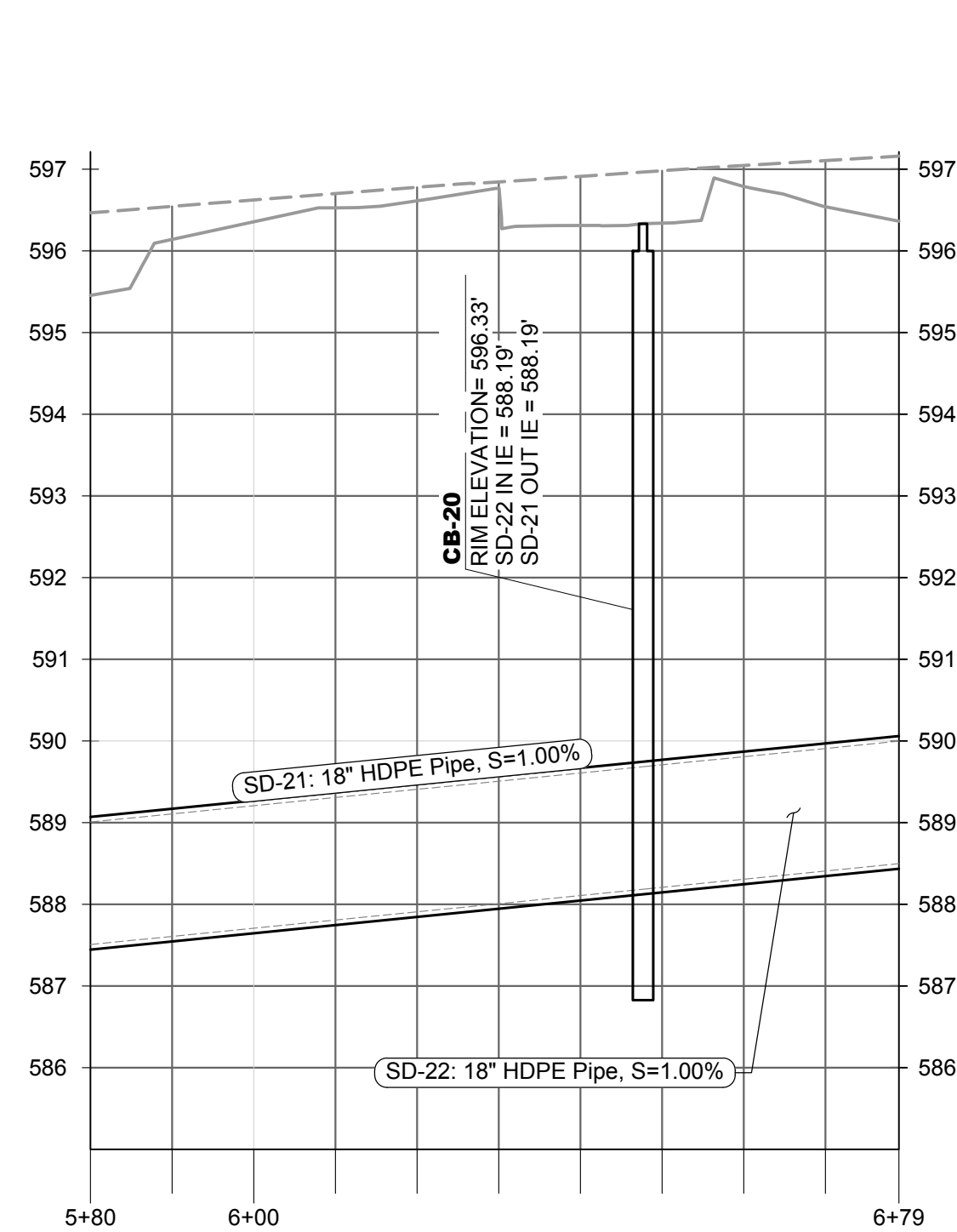
FAA AIP NO.:

SHEET NO.: **C6.1**

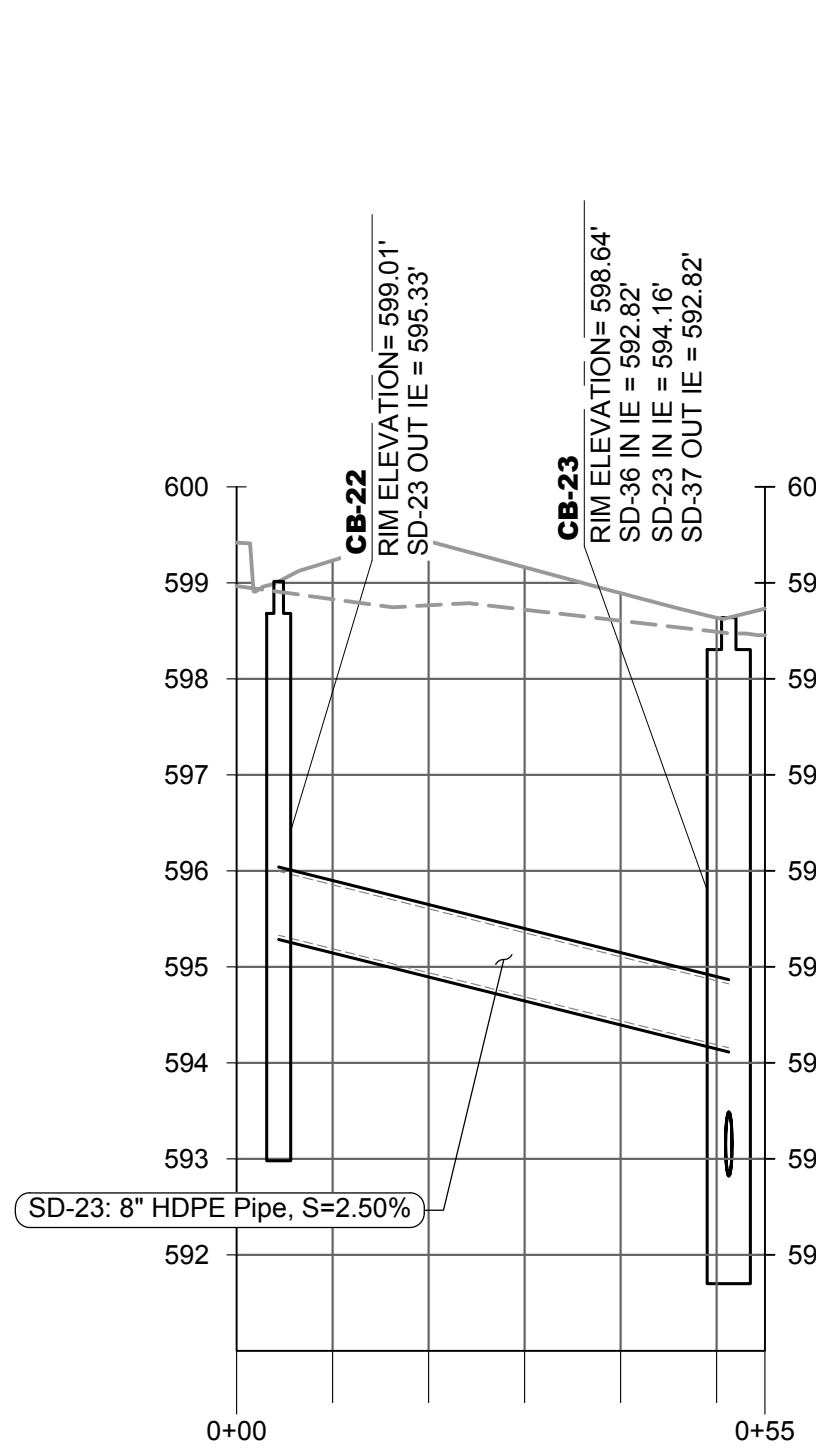




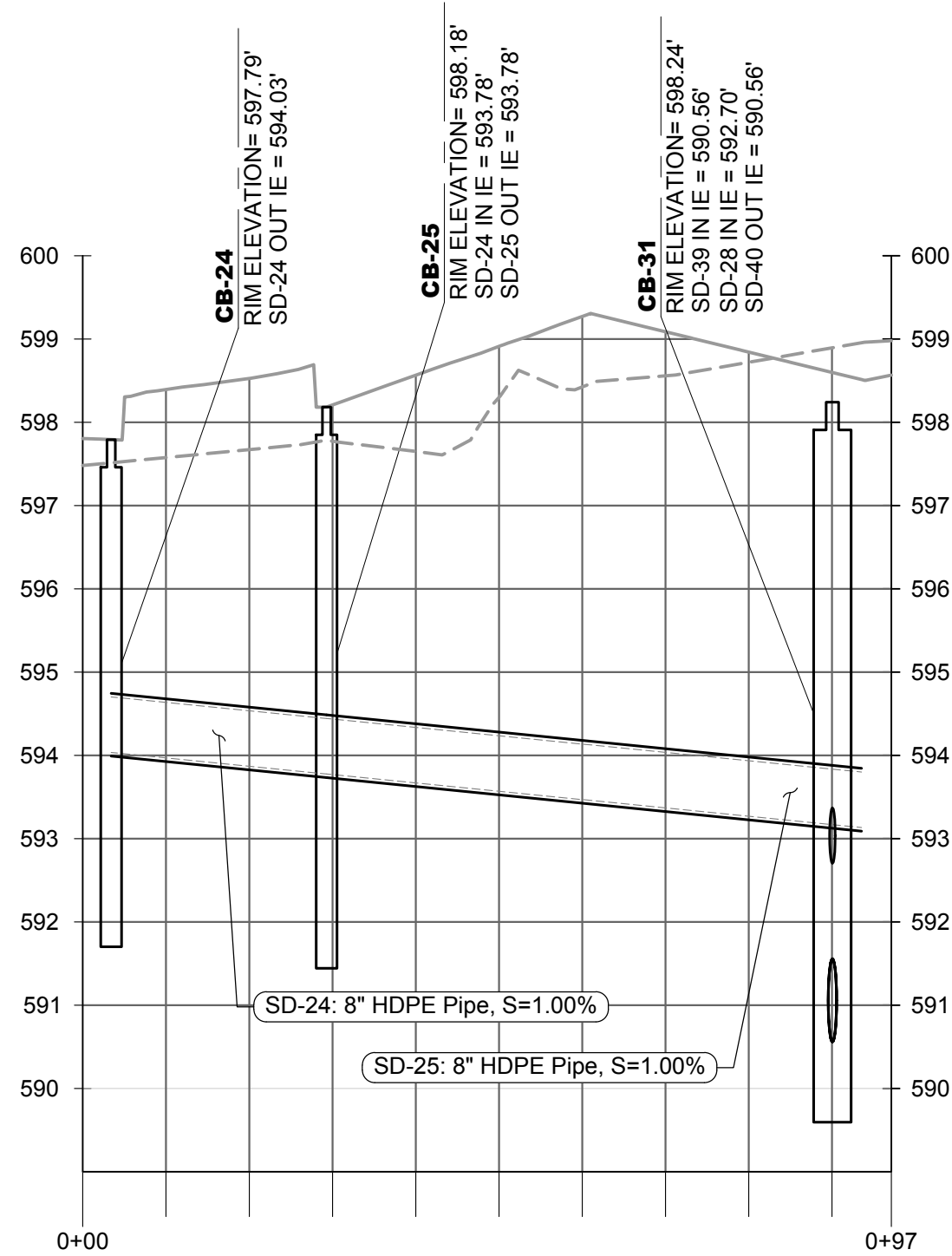
LANDSIDE WEST 1 PROFILE



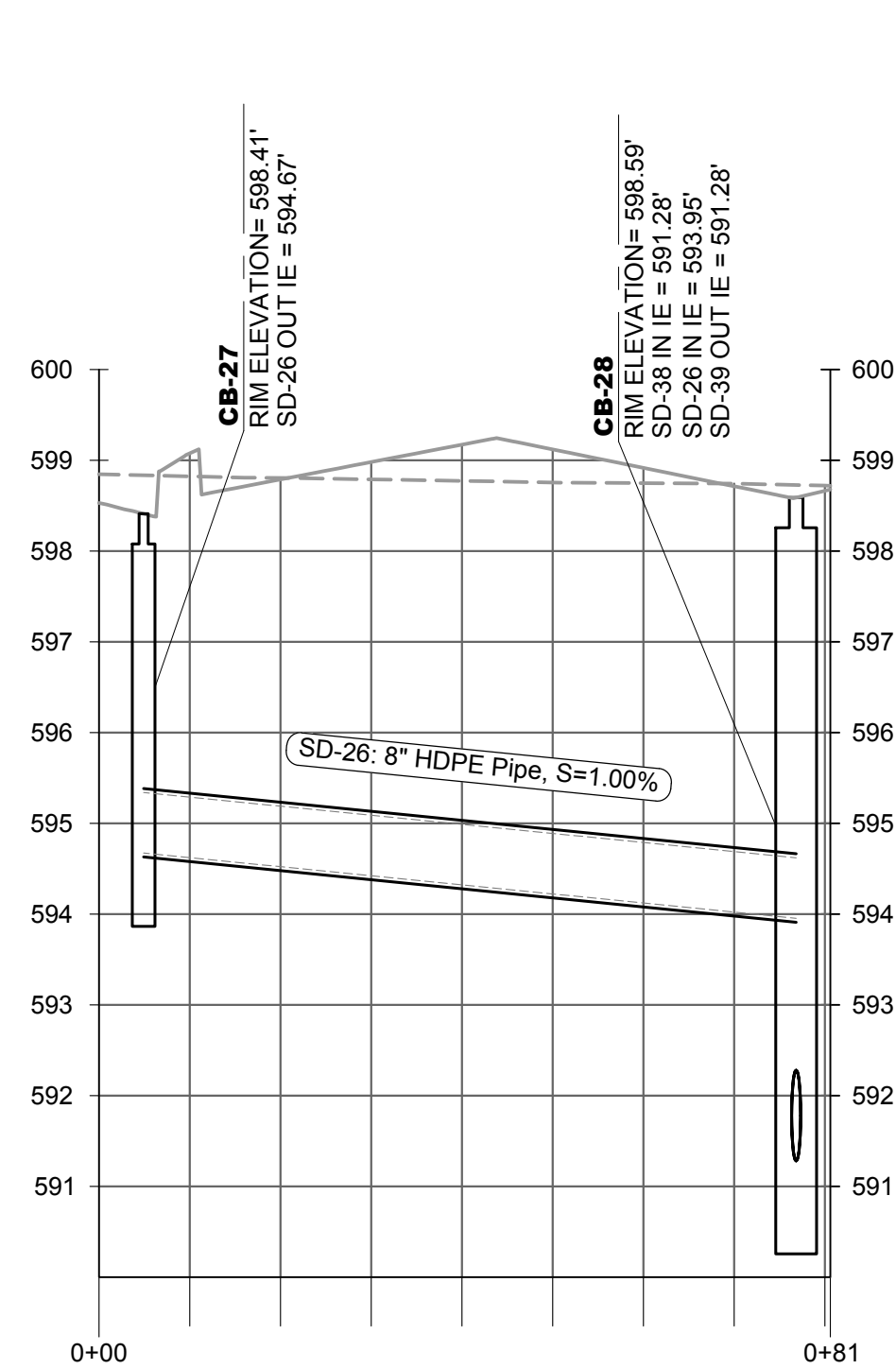
LANDSIDE WEST 1 PROFILE



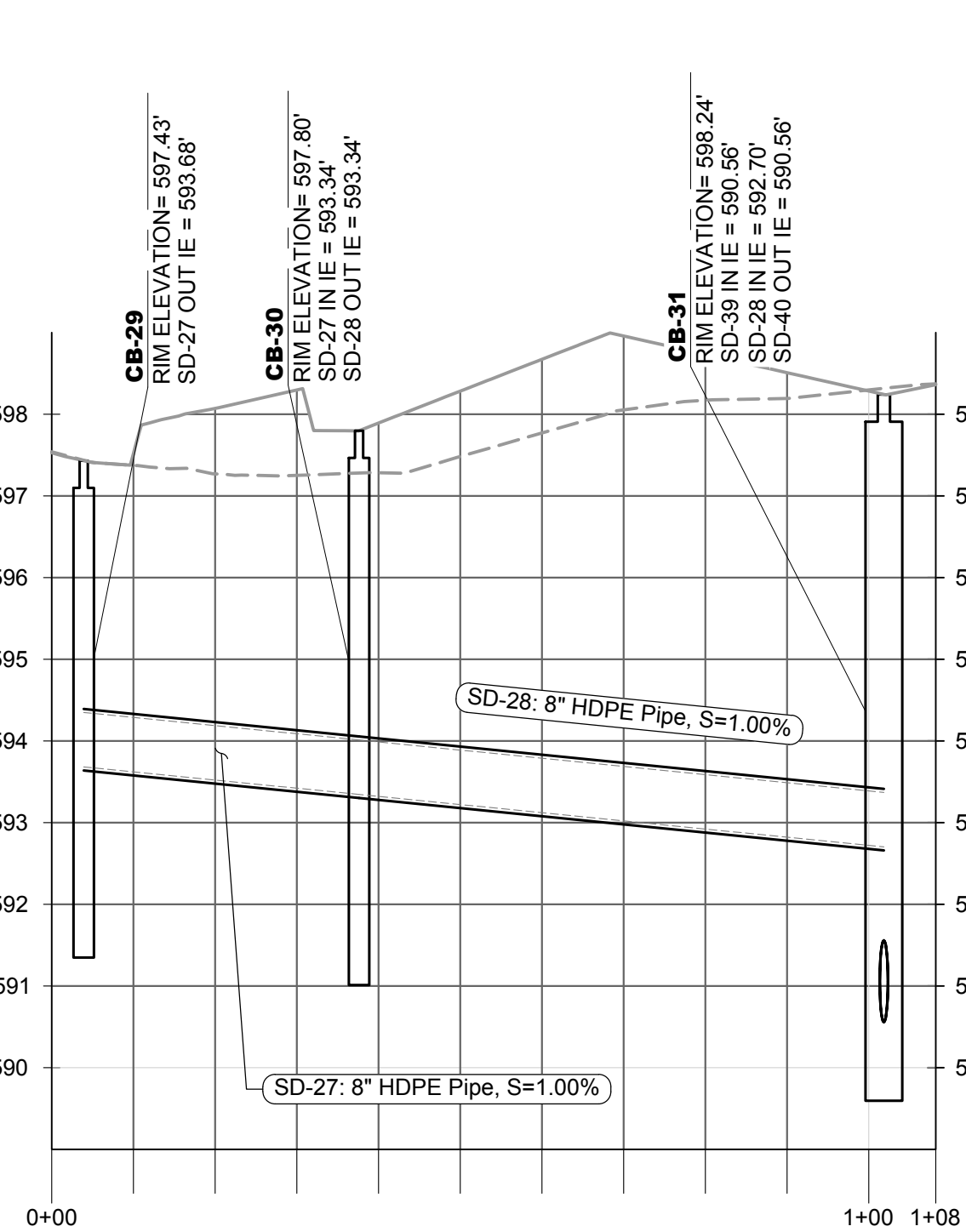
LANDSIDE LATERAL 1 PROFILE



LANDSIDE LATERAL 2 PROFILE



LANDSIDE LATERAL 3 PROFILE



LANDSIDE LATERAL 4 PROFILE

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.

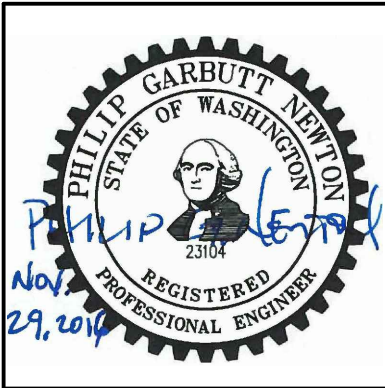
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO

DRAWN: AC  
JS

CHECKED: CT

APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

propeller airports

PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL

SHEET TITLE: DRAINAGE PROFILES 2

SCALE: AS SHOWN

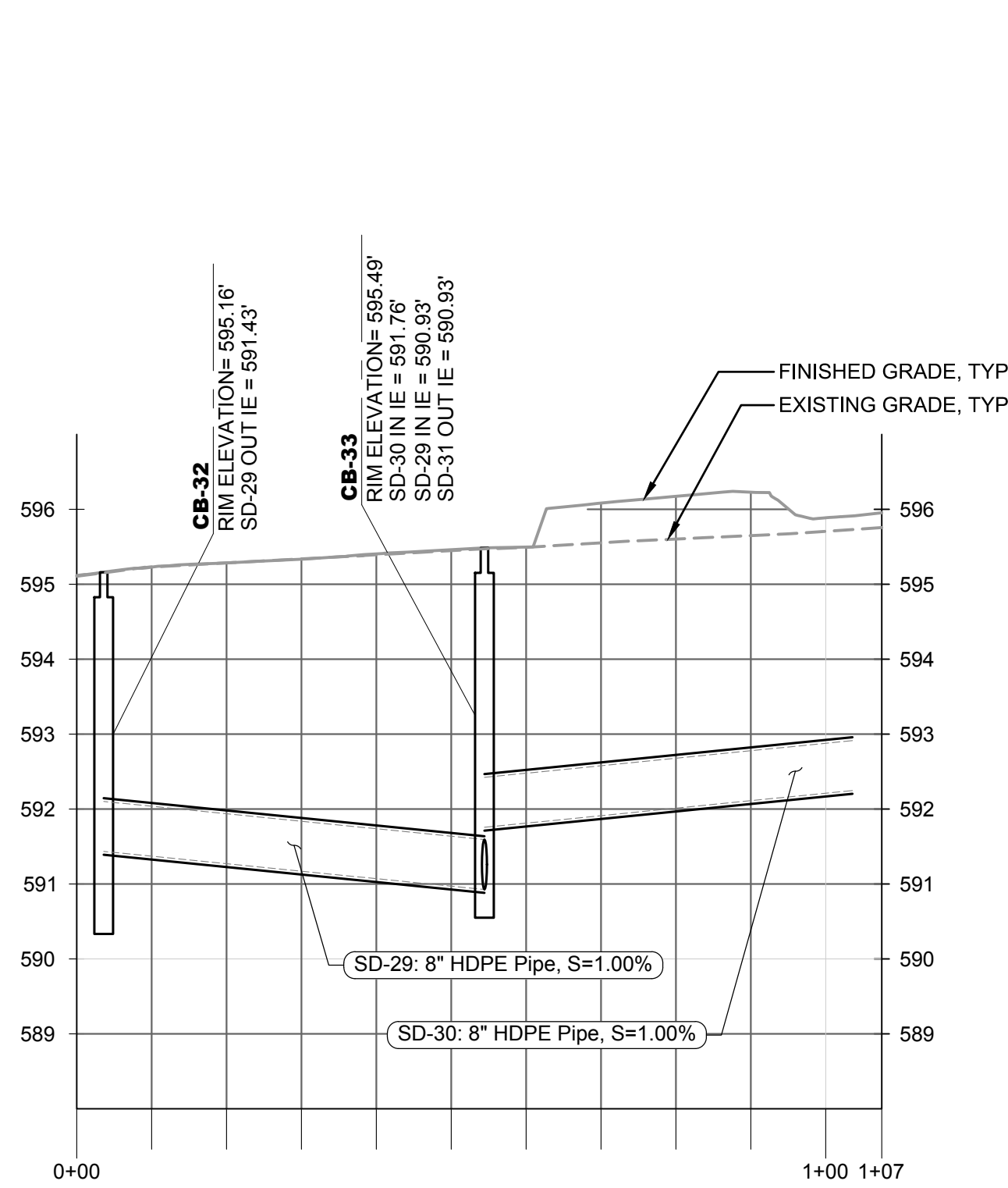
DATE: NOVEMBER 29, 2016

PFN NO.: 16-109244 LDA

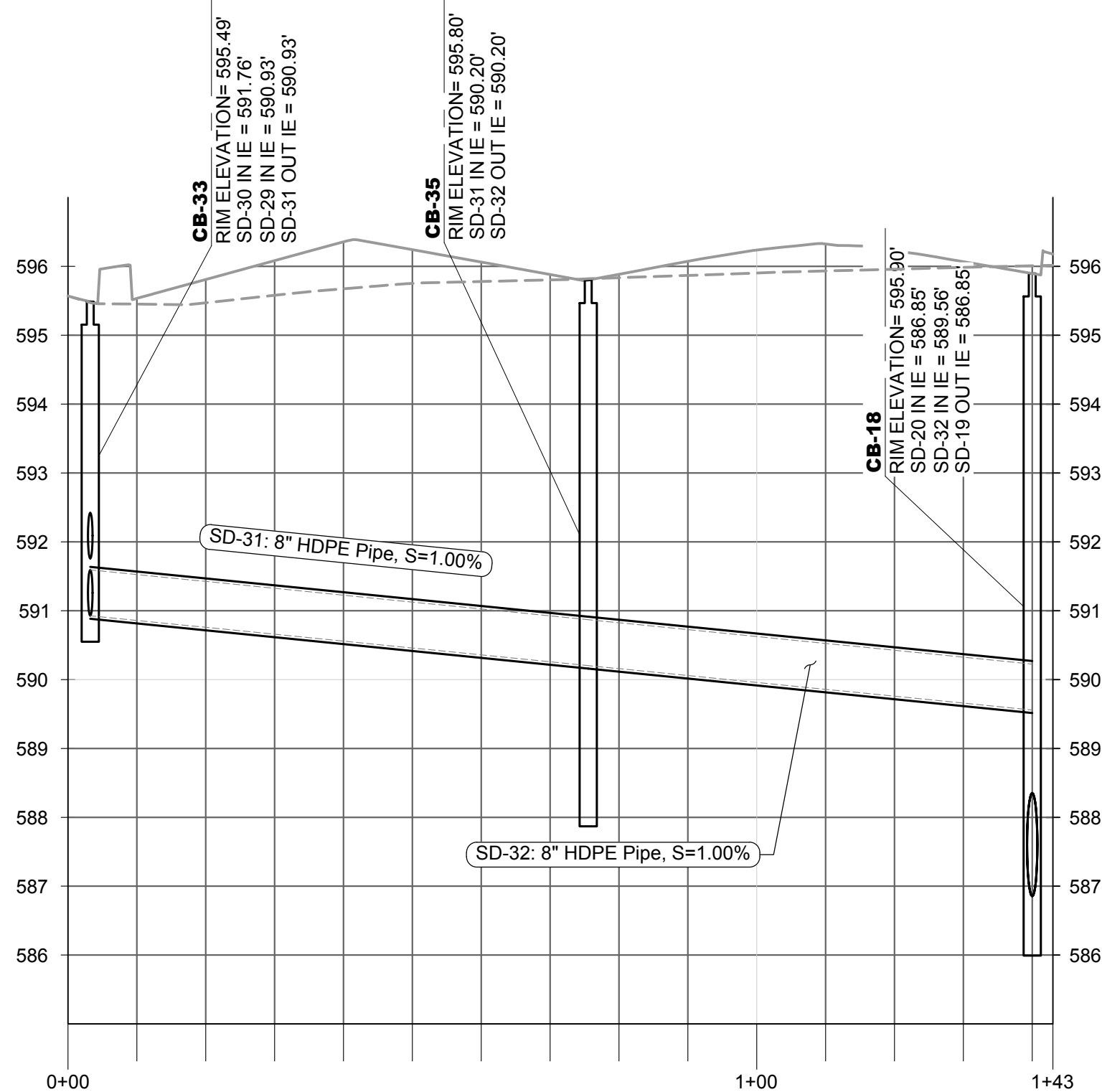
FAA AIP NO.:

SHEET NO.: **C6.2**

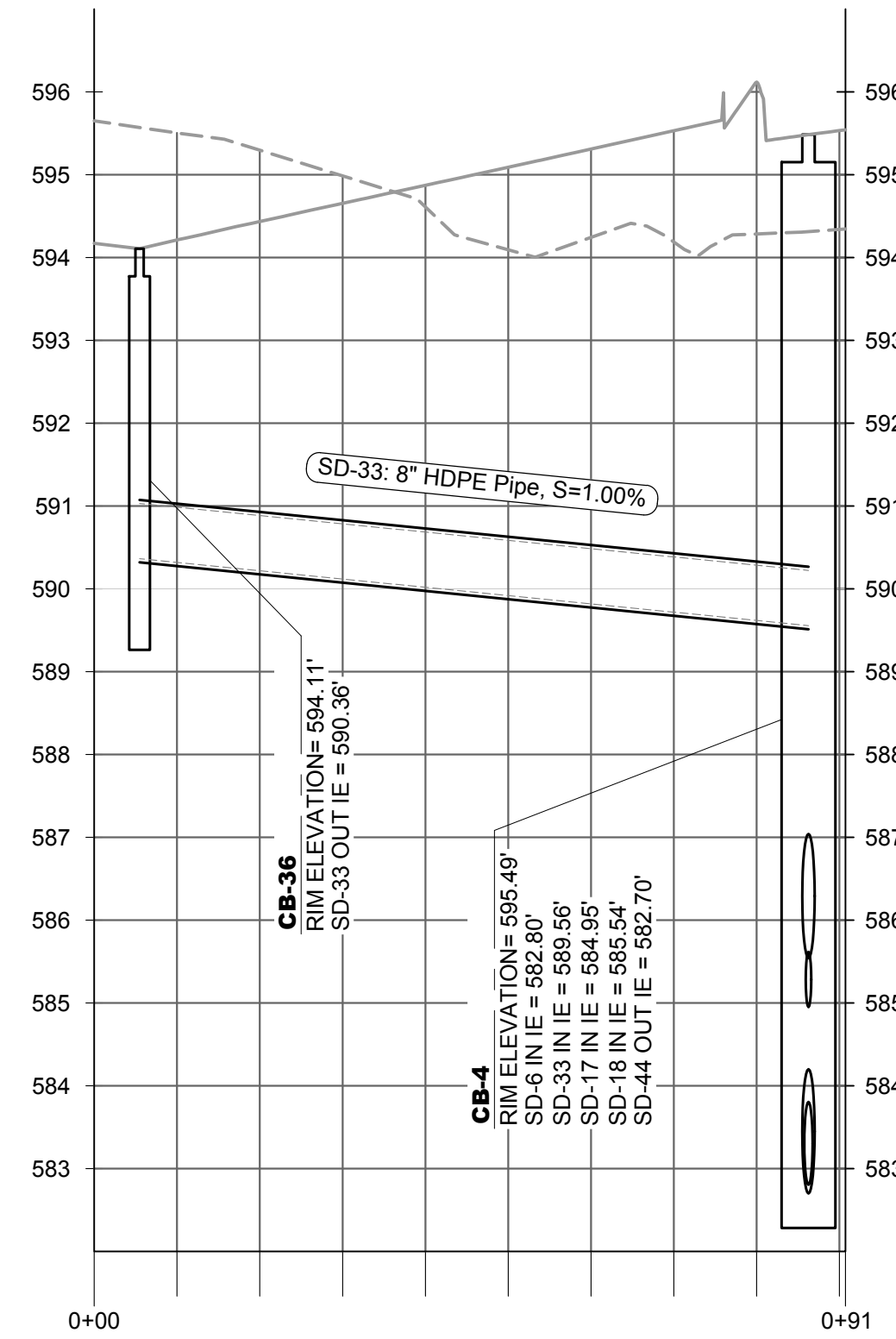




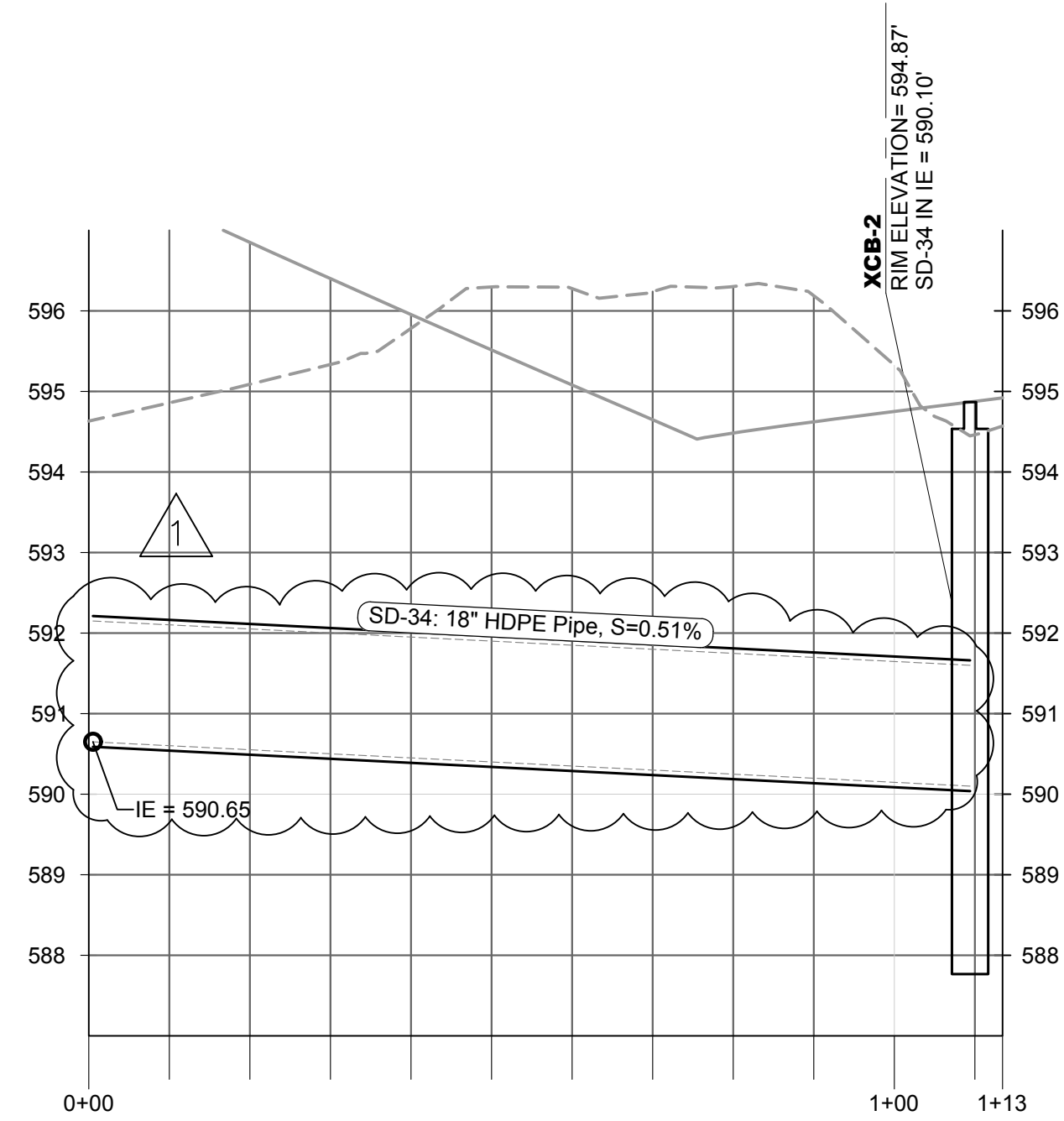
LANDSIDE LATERAL 5 PROFILE



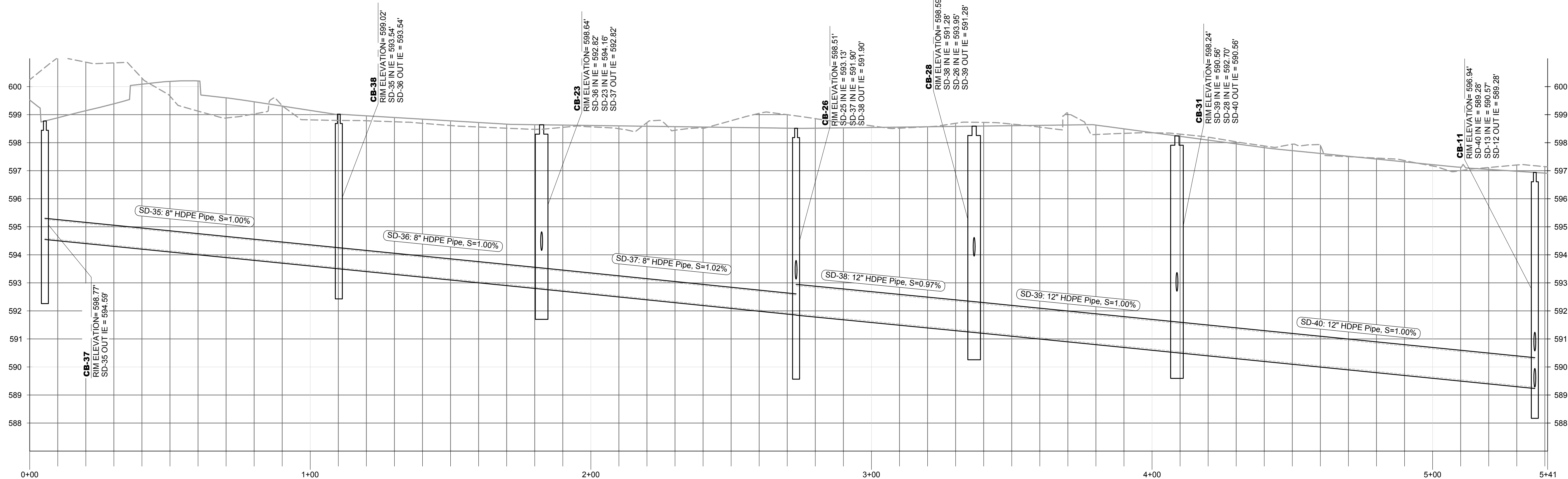
LANDSIDE LATERAL 6 PROFILE



LANDSIDE LATERAL 7 PROFILE



WQV OUTLET PROFILE



LANDSIDE EAST PROFILE

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.

R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO

DRAWN: AC  
JS

CHECKED: CT

APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

propeller airports

PROJECT TITLE:	PAINE FIELD PASSENGER TERMINAL
SHEET TITLE:	DRAINAGE PROFILES 3
SCALE:	AS SHOWN
DATE:	NOVEMBER 29, 2016

PFN NO.:	16-109244 LDA
FAA AIP NO.:	
SHEET NO.:	C6.3



STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	STRUCTURE DETAILS	INVERT ELEVATIONS	LOCATION
3-WAY	CYLINDRICAL STRUCTURE SLAB TOP CIRCULAR FRAME	RIM = 595.02' HEIGHT, H = 10.04'	I.E = 585.06 IN I.E = 585.06 OUT	N = 334781.76 E = 1285828.53
BYPASS	CYLINDRICAL STRUCTURE SLAB TOP CIRCULAR FRAME	RIM = 594.84' HEIGHT, H = 9.93'	I.E = 585.13 IN I.E = 585.00 IN I.E = 585.13 OUT	N = 334777.13 E = 1285823.90
CB-1	CYLINDRICAL STRUCTURE SLAB TOP CIRCULAR FRAME	RIM = 594.27' HEIGHT, H = 9.96'	I.E = 584.57 IN I.E = 587.76 IN I.E = 584.48 OUT I.E = 585.48 OUT	N = 334755.84 E = 1285802.61
CB-2	CYLINDRICAL STRUCTURE SLAB TOP CIRCULAR FRAME	RIM = 595.80' HEIGHT, H = 11.09'	I.E = 584.79 IN I.E = 589.66 IN I.E = 584.79 OUT	N = 334800.26 E = 1285848.62
CB-3	CYLINDRICAL STRUCTURE SLAB TOP CIRCULAR FRAME	RIM = 596.16' HEIGHT, H = 13.35'	I.E = 583.16 IN I.E = 589.73 IN I.E = 583.16 OUT	N = 334911.50 E = 1285968.50
CB-4	CYLINDRICAL STRUCTURE SLAB TOP CIRCULAR FRAME	RIM = 595.49' HEIGHT, H = 12.87'	I.E = 582.80 IN I.E = 589.56 IN I.E = 584.95 IN I.E = 585.54 IN I.E = 582.70 OUT	N = 334936.50 E = 1285993.26
CB-5	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 595.05' HEIGHT, H = 6.18'	I.E = 590.87 OUT	N = 334942.54 E = 1285934.99
CB-6	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME 12 INCH VERTICAL PIPE CLEARANCE	RIM = 594.65' HEIGHT, H = 6.00'	I.E = 590.65 OUT	N = 334828.66 E = 1285820.99
CB-8	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 596.40' HEIGHT, H = 5.42'	I.E = 592.23 OUT	N = 334857.78 E = 1286052.74
CB-9	CYLINDRICAL STRUCTURE SLAB TOP CIRCULAR FRAME	RIM = 596.93' HEIGHT, H = 6.54'	I.E = 591.52 IN I.E = 591.52 OUT	N = 334829.72 E = 1286117.80
CB-11	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 596.94' HEIGHT, H = 8.44'	I.E = 589.28 IN I.E = 590.57 IN I.E = 589.28 OUT	N = 334765.32 E = 1286270.90
CB-12	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 596.93' HEIGHT, H = 6.73'	I.E = 592.21 IN I.E = 592.21 OUT	N = 334799.60 E = 1286326.49
CB-13	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME 12 INCH VERTICAL PIPE CLEARANCE	RIM = 596.69' HEIGHT, H = 5.78'	I.E = 592.92 OUT	N = 334820.62 E = 1286307.39
CB-14	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 592.49' HEIGHT, H = 4.90'	I.E = 588.75 OUT	N = 335190.14 E = 1285939.02
CB-15	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 592.06' HEIGHT, H = 6.87'	I.E = 587.19 IN I.E = 587.19 OUT	N = 335083.08 E = 1285824.72
CB-16	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 592.58' HEIGHT, H = 7.88'	I.E = 586.70 IN I.E = 586.70 OUT	N = 335046.72 E = 1285857.35
CB-17	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 595.32' HEIGHT, H = 11.14'	I.E = 586.18 IN I.E = 586.18 OUT	N = 334893.79 E = 1286040.72
CB-18	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 595.90' HEIGHT, H = 9.57'	I.E = 586.85 IN I.E = 589.56 IN I.E = 586.85 OUT	N = 334851.84 E = 1286093.50
CB-19	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 595.34' HEIGHT, H = 8.99'	I.E = 587.42 IN I.E = 587.42 OUT	N = 334806.90 E = 1286127.79
CB-20	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 596.33' HEIGHT, H = 9.17'	I.E = 588.19 IN I.E = 588.19 OUT	N = 334758.41 E = 1286188.91
CB-21	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 595.80' HEIGHT, H = 8.40'	I.E = 588.55 IN I.E = 590.19 IN I.E = 588.55 OUT	N = 334728.46 E = 1286207.33
CB-22	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME 12 INCH VERTICAL PIPE CLEARANCE	RIM = 599.01' HEIGHT, H = 5.70'	I.E = 595.33 OUT	N = 334481.90 E = 1286487.96
CB-23	CYLINDRICAL STRUCTURE SLAB TOP CIRCULAR FRAME	RIM = 598.64' HEIGHT, H = 6.61'	I.E = 592.82 IN I.E = 594.16 IN I.E = 592.82 OUT	N = 334515.01 E = 1286521.18
CB-24	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME 12 INCH VERTICAL PIPE CLEARANCE	RIM = 597.79' HEIGHT, H = 5.76'	I.E = 594.03 OUT	N = 334844.04 E = 1286482.93
CB-25	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME 12 INCH VERTICAL PIPE CLEARANCE	RIM = 598.18' HEIGHT, H = 6.41'	I.E = 593.78 IN I.E = 593.78 OUT	N = 334625.79 E = 1286501.28

STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	STRUCTURE DETAILS	INVERT ELEVATIONS	LOCATION
CB-26	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME 12 INCH VERTICAL PIPE CLEARANCE	RIM = 598.51' HEIGHT, H = 8.61'	I.E = 593.13 IN I.E = 591.90 IN I.E = 591.90 OUT	N = 334579.14 E = 1286457.08
CB-27	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 598.41' HEIGHT, H = 4.21'	I.E = 594.67 OUT	N = 334571.58 E = 1286362.98
CB-28	CYLINDRICAL STRUCTURE SLAB TOP CIRCULAR FRAME	RIM = 598.59' HEIGHT, H = 8.00'	I.E = 591.28 IN I.E = 593.95 IN I.E = 591.28 OUT	N = 334624.01 E = 1286412.20
CB-29	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME 12 INCH VERTICAL PIPE CLEARANCE	RIM = 597.43' HEIGHT, H = 5.75'	I.E = 593.68 OUT	N = 334703.88 E = 1286433.83
CB-30	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME 12 INCH VERTICAL PIPE CLEARANCE	RIM = 597.80' HEIGHT, H = 6.45'	I.E = 593.34 IN I.E = 593.34 OUT	N = 334721.72 E = 1286405.30
CB-31	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME 12 INCH VERTICAL PIPE CLEARANCE	RIM = 598.24' HEIGHT, H = 8.31'	I.E = 590.56 IN I.E = 592.70 IN I.E = 590.56 OUT	N = 334675.12 E = 1286361.09
CB-32	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 595.16' HEIGHT, H = 4.49'	I.E = 591.43 OUT	N = 334981.06 E = 1286156.56
CB-33	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 595.49' HEIGHT, H = 4.60'	I.E = 591.76 IN I.E = 590.93 IN I.E = 590.93 OUT	N = 334945.03 E = 1286192.42
CB-34	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 595.91' HEIGHT, H = 5.67'	I.E = 592.25 OUT	N = 334904.94 E = 1286220.81
CB-35	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME 12 INCH VERTICAL PIPE CLEARANCE	RIM = 595.80' HEIGHT, H = 7.60'	I.E = 590.20 IN I.E = 590.20 OUT	N = 334890.14 E = 1286145.35
CB-36	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 594.11' HEIGHT, H = 4.51'	I.E = 590.36 OUT	N = 334968.98 E = 1286067.24
CB-37	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME 12 INCH VERTICAL PIPE CLEARANCE	RIM = 598.77' HEIGHT, H = 6.18'	I.E = 594.59 OUT	N = 334362.85 E = 1286600.01
CB-38	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME	RIM = 599.02' HEIGHT, H = 6.25'	I.E = 593.54 IN I.E = 593.54 OUT	N = 334463.90 E = 1286572.28
OWS	SD OWS	RIM = 594.51' HEIGHT, H = 11.51'	I.E = 584.43 IN I.E = 585.18 OUT	N = 334766.19 E = 1285812.87
XCB-1	RECTANGULAR STRUCTURE SLAB TOP RECTANGULAR FRAME 12 INCH VERTICAL PIPE CLEARANCE	RIM = 594.51' HEIGHT, H = 4.94'	I.E = 590.30 OUT	N = 334654.42 E = 1285798.54
XCB-2	CYLINDRICAL STRUCTURE SLAB TOP CIRCULAR FRAME	RIM = 594.87' HEIGHT, H = 6.77'	I.E = 590.10 IN	N = 334980.58 E = 1286126.79

NODE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	STRUCTURE DETAILS	INVERT ELEVATIONS	LOCATION
BYPASS NODE 1	BYPASS NODE	FG EL = 586.55'	I.E = 585.39 IN I.E = 585.38 OUT	N = 334749.64 E = 1285808.82
BYPASS NODE 2	BYPASS NODE	FG EL = 586.22'	I.E = 585.08 IN I.E = 585.08 OUT	N = 334771.04 E = 1285830.10
CB-40	TRENCH DRAIN	RIM = 596.97'	I.E = 595.96 IN I.E = 590.96 IN I.E = 590.96 OUT	N = 334669.78 E = 1286156.46
TDC-1	TRENCH DRAIN	RIM = 587.90'	I.E = 586.76 OUT	N = 334910.86 E = 1285647.59
TDC-2	TRENCH DRAIN	RIM = 589.56'	I.E = 585.25 IN I.E = 588.19 OUT I.E = 585.25 OUT	N = 334804.29 E = 1285754.16

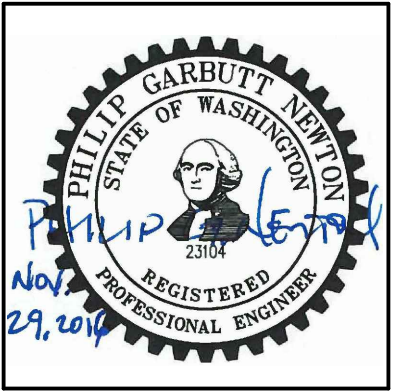
PIPE TABLE							
PIPE	SIZE	LENGTH	SLOPE	START STRUCTURE	START IE	END STRUCTURE	END IE
SD-1	12"	150.7	1.00%	TDC-2	585.25	TDC-1	586.76
SD-2	12"	67.8	1.00%	CB-1	584.57	TDC-2	585.25
SD-3	12"	101.5	2.50%	CB-1	587.76	XCB-1	590.30
SD-4	12"	27.3	1.00%	CB-2	584.79	3-WAY	585.06
SD-5	12"	163.5	1.00%	CB-2	584.79	CB-3	583.16
SD-6	12"	35.2	1.00%	CB-3	583.16	CB-4	582.80
SD-7	8"	39.6	2.50%	CB-6	590.65	CB-2	589.66
SD-8	8"	45.7	2.50%	CB-5	590.87	CB-3	589.73
SD-9	8"	70.9	1.00%	CB-8	592.23	CB-9	591.52
SD-10	8"	55.7	1.00%	CB-9	591.52	CB-40	590.96
SD-11	8"	77.7	1.00%	CB-40	590.96	CB-21	590.19
SD-12	8"	73.5	1.00%	CB-11	589.28	CB-21	588.55
SD-13	8"	65.3	2.50%	CB-11	590.57	CB-12	592.21
SD-14	8"	28.4	2.50%	CB-13	592.92	CB-12	592.21
SD-15	8"	156.6	1.00%	CB-15	587.19	CB-14	588.75
SD-16	8"	48.9	1.00%	CB-16	586.70	CB-15	587.19
SD-17	8"	175.0	1.00%	CB-4	584.95	CB-16	586.70
SD-18	18"	63.9	1.00%	CB-4	585.54	CB-17	586.18
SD-19	18"	67.4	1.00%	CB-17	586.18	CB-18	586.85
SD-20	18"	56.5	1.00%	CB-19	587.42	CB-18	586.85
SD-21	18"	77.1	1.00%	CB-20	588.19	CB-19	587.42
SD-22	18"	35.7	1.00%	CB-21	588.55	CB-20	588.19
SD-23	8"	46.9	2.50%	CB-22	595.33	CB-23	594.16
SD-24	8"	25.9	1.00%	CB-25	593.78	CB-24	594.03
SD-25	8"	64.3	1.00%	CB-26	593.13	CB-25	593.78
SD-26	8"	71.9	1.00%	CB-27	594.67	CB-28	593.95
SD-27	8"	33.7	1.00%	CB-30	593.34	CB-29	593.68
SD-28	8"	64.2	1.00%	CB-30	593.34	CB-31	592.70
SD-29	8"	50.8	1.00%	CB-33	590.93	CB-32	591.43
SD-30	8"	49.1	1.00%	CB-34	592.25	CB-33	591.76
SD-31	8"	72.3	1.00%	CB-35	590.20	CB-33	590.93
SD-32	8"	64.5	1.00%	CB-35	590.20	CB-18	589.56
SD-33	8"	80.8	1.00%	CB-36	590.36	CB-4	589.56
SD-34	18"	108.9	0.51%	XCB-2	590.10		590.65
SD-35	8"	104.8	1.00%	CB-38	593.54	CB-37	594.59
SD-36	8"	72.3	1.00%	CB-38	593.54	CB-23	592.82
SD-37	8"	90.7	1.02%	CB-26	591.90	CB-23	592.82
SD-38	12"	63.5	0.97%	CB-28	591.28	CB-26	591.90
SD-39	12"	72.3	1.00%	CB-31	590.56	CB-28	591.28
SD-40	12"	127.6	1.00%	CB-11	589.28	CB-31	590.56
SD-41	12"	4.8	1.00%	CB-1	584.48	OWS	584.43
SD-42	12"	4.7	1.00%	OWS	585.18	BYPASS	585.13
SD-43	12"	6.5	1.00%	BYPASS	585.13	3-WAY	585.06
SD-44	18"	48.8	2.23%	CB-4	582.70		581.61
SD-45	12"	6.7	32.65%	TDC-2	588.19		586.00
SD-46	8"	4.1	12.33%		596.46	CB-40	595.96
SD-51	12"	9.5	1.00%	CB-1	585.48	BYPASS NODE 1	585.39
SD-52	12"	30.2	1.00%	BYPASS NODE 1	585.38	BYPASS NODE 2	585.08
SD-53	12"	8.7	0.96%	BYPASS NODE 2	585.08	BYPASS	585.00

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.

R/W PERMIT NO. \_\_\_\_\_

DESIGNED:	PGN
DRAWN:	AC JS
CHECKED:	CT
APPROVED:	PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL

**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

PROJECT TITLE:	PAINE FIELD PASSENGER TERMINAL
SHEET TITLE:	PIPE AND STRUCTURE SCHEDULE
SCALE:	AS SHOWN
DATE:	NOVEMBER 29, 2016

PFN NO.: 16-109244 LDA

FAA AIP NO.:

SHEET NO.:

C6.4



FILE NAME: C:\Box Sync\PAE Passenger Terminal Project\01 CAD\02 Sheets\C6.1 - Drainage Details.dwg PLOTTED: Wednesday, November 30, 2016 - 2:50pm USER: jason.zhou1

STRUCTURAL NOTES

- GENERAL
- STRUCTURAL DESIGN FOR THE WET VAULT, PUMP STATION STRUCTURE, MANIFOLD STRUCTURE, OIL/WATER SEPARATOR, AND RETAINING WALL ARE TO BE SUBMITTED BY THE CONTRACTOR AS DEFERRED SUBMITTALS. THE CONTRACTOR SHALL HAVE THE DESIGNS PREPARED AND ENDORSED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF WASHINGTON. SUBMITTAL OF THE STRUCTURAL DRAWINGS TO SNOHOMISH COUNTY IS EXPECTED TO BE A CONDITION OF THE LDA PERMIT, AND SHALL BE APPROVED PRIOR TO CONSTRUCTION.
  - THE STRUCTURAL DRAWINGS REPRESENT THE COMPLETED STRUCTURE AND ARE NOT INTENDED TO INDICATE THE MEANS AND METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL SHORING, BRACING, SCAFFOLDING, FORMWORK, GUYS, RIGGING AND OTHER TEMPORARY SUPPORTS AS NEEDED TO SAFELY RESIST ALL LOADING IMPOSED UPON THE STRUCTURE BOTH DURING THE REMOVAL OF ANY EXISTING STRUCTURE AND DURING ERECTION AND CONSTRUCTION.
  - ERECTION AND CONSTRUCTION PROCEDURES SHALL CONFORM TO THE REQUIREMENONE OF APPLICABLE ORDINANCES, REGULATIONS AND THE PROVISION OF CODES CITED BELOW.
  - ALL CONSTRUCTION SHALL BE COORDINATED WITH AND SHALL BE SUBJECT TO THE INSPECTION REQUIREMENONE CITED BELOW.
  - THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS, DETAILS, AND OPENINGS BETWEEN THE STRUCTURAL DRAWINGS AND THAT OF OTHER TRADES PRIOR TO COMMENCING WORK. SHOULD THERE BE ANY CONFLICTS, NOTIFY THE TECHNICAL REPRESENTATIVE FOR CLARIFICATION.
  - EQUIPMENT OR MATERIAL BEING TRANSPORTED TO LOCATION OR TEMPORARILY STORED SHALL NOT EXCEED THE DESIGN LIVE LOAD FOR THE STRUCTURE.
  - THESE GENERAL NOTES ARE TO BE READ IN CONCERT WITH THE SPECIFICATIONS. ANY CONFLICTS BETWEEN THE CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE TECHNICAL REPRESENTATIVE FOR CLARIFICATION.

- CODES:
- 2012 INTERNATIONAL BUILDING CODE.
  - ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
  - AMERICAN CONCRETE INSTITUTE (ACI) 318-05
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THIRTEENTH EDITION

DESIGN LIVE LOADS:

AIRCRAFT LOADING..... 100,000 LBS.

TUG LOADING..... 37,500 LBS.

HS20 LOADING..... 16,000 LBS.

EARTH PRESSURE..... SEE GEOTECHNICAL REPORT BY AECOM CORP.

SEISMIC DESIGN DATA:

MISCELLANEOUS STRUCTURES: I = 1.0

MAPPED SPECTRAL RESPONSE - S<sub>s</sub>=150 S=50

SOIL PROFILE TYPE: F

ALLOWABLE DESIGN STRESSES:

CONCRETE (28 DAY STRENGTH)

ALL CONCRETE UNLESS NOTED OTHERWISE f<sub>c</sub>'= 4,000 PSI

REINFORCEMENT:

REINFORCEMENT BARS (ASTM A615) F<sub>y</sub> = 60,000 PSI

- FOUNDATIONS:
- SPREAD FOOTING INSTALLATION SHALL BE MONITORED BY THE TECHNICAL REPRESENTATIVE.
  - MIN ALLOWABLE BEARING PRESSURE REQUIRED IS 3,000 PSF. TO BE FIELD VERIFIED.
  - BEAR ALL FOOTINGS ON INORGANIC, UNDISTURBED, DENSE SANDY GRAVEL SOIL OR IN STRUCTURAL FILL AT DEPTHS INDICATED ON DRAWINGS.
  - BEAR FOOTINGS SUBJECT TO FROST A MINIMUM OF 1'-6" BELOW LOWEST ADJACENT GRADE.
  - NO FOOTING SHALL BE PLACED HIGHER THAN 2.0 HORIZONTAL TO 1.0 VERTICAL FROM ANY ADJACENT EXCAVATION.

- CONCRETE:
- DESIGN, MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS UNLESS OTHERWISE MODIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
    - 2012 INTERNATIONAL BUILDING CODE.
    - ACI 318-05 BUILDING CODE REQUIREMENONE FOR REINFORCED CONCRETE
    - ACI SP-66 DETAILING MANUAL
    - ACI 301-08 SPECIFICATIONS FOR STRUCTURAL CONCRETE
    - CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS
  - PRIOR TO SHIPPING OF REINFORCING STEEL TO THE FIELD, SHOP DRAWINGS SHALL BE SUPPLIED TO THE TECHNICAL REPRESENTATIVE FOR REVIEW.
  - ALL CONCRETE SHALL CONTAIN A WATER-REDUCING ADMIXTURE, AND/OR A HIGH-RANGE WATER-REDUCING ADMIXTURE, REDUCING THE WATER BY AT LEAST 10 PERCENT FROM THE SAME MIX WITHOUT THE ADMIXTURE.
  - NO WATER FROM THE TRUCK SYSTEM OR ELSEWHERE SHALL BE ADDED AFTER THE INITIAL INTRODUCTION OF MIXING WATER FOR THE BATCH.
  - NOMINAL MAXIMUM SIZE OF AGGREGATE SHALL BE 3/4 INCH. NOMINAL MAXIMUM SIZE OF AGGREGATE IN CONCRETE ON STEEL DECK SHALL BE 3/8 INCH. MAXIMUM SIZE AGGREGATE IN SPREAD FOOTING SHALL BE 1 INCH. AGGREGATE SHALL CONFORM TO ASTM C33.
  - PROVIDE A MINIMUM COVER AS SPECIFIED IN ACI 318-99, BUT NOT LESS THAN THE FOLLOWING:
    - CONCRETE PLACED DIRECTLY AGAINST GROUND - 3"
    - CONCRETE EXPOSED TO WEATHER
      - #6 OR LARGER - 2"
      - #5 OR SMALLER - 1 1/2"
    - CONCRETE NOT EXPOSED TO WEATHER OR GROUND (SLABS, WALLS, JOISTS (#11 AND SMALLER) - 3/4" BEAMS AND COLUMNS - 1 1/2"
  - REINFORCEMENT INCLUDING WELDED WIRE FABRIC SHALL BE POSITIVELY SUPPORTED IN THE POSITION AS SHOWN ON THE DRAWINGS AND SHALL BE MAINTAINED IN THIS POSITION DURING THE PLACING OF CONCRETE.
  - ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4 INCH 45 DEGREE CHAMFER.

- REFER TO MECHANICAL, PIPING AND ELECTRICAL DRAWINGS FOR EMBEDDED ITEMS.
- FLOOR FINISHES SHALL BE AS SHOWN ON THE DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS.
- ALL WELDED WIRE FABRIC SHALL BE LAPPED AT LEAST 12 INCHES. ALL REINFORCEMENT BAR LAPS SHALL CONFORM TO ACI LAP REQUIREMENONE. STAGGER SPLICES WHEREVER POSSIBLE.
- WELDING OF REINFORCING STEEL IS PROHIBITED.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD BEND. RADII TO BE PER ACI SPECIFICATION.
- NO ALUMINUM CONDUITS OR PIPES SHALL BE EMBEDDED IN CONCRETE. THE USE OF ALUMINUM PIPES OR CHUTES TO TRANSPORT CONCRETE SHALL NOT BE PERMITTED.

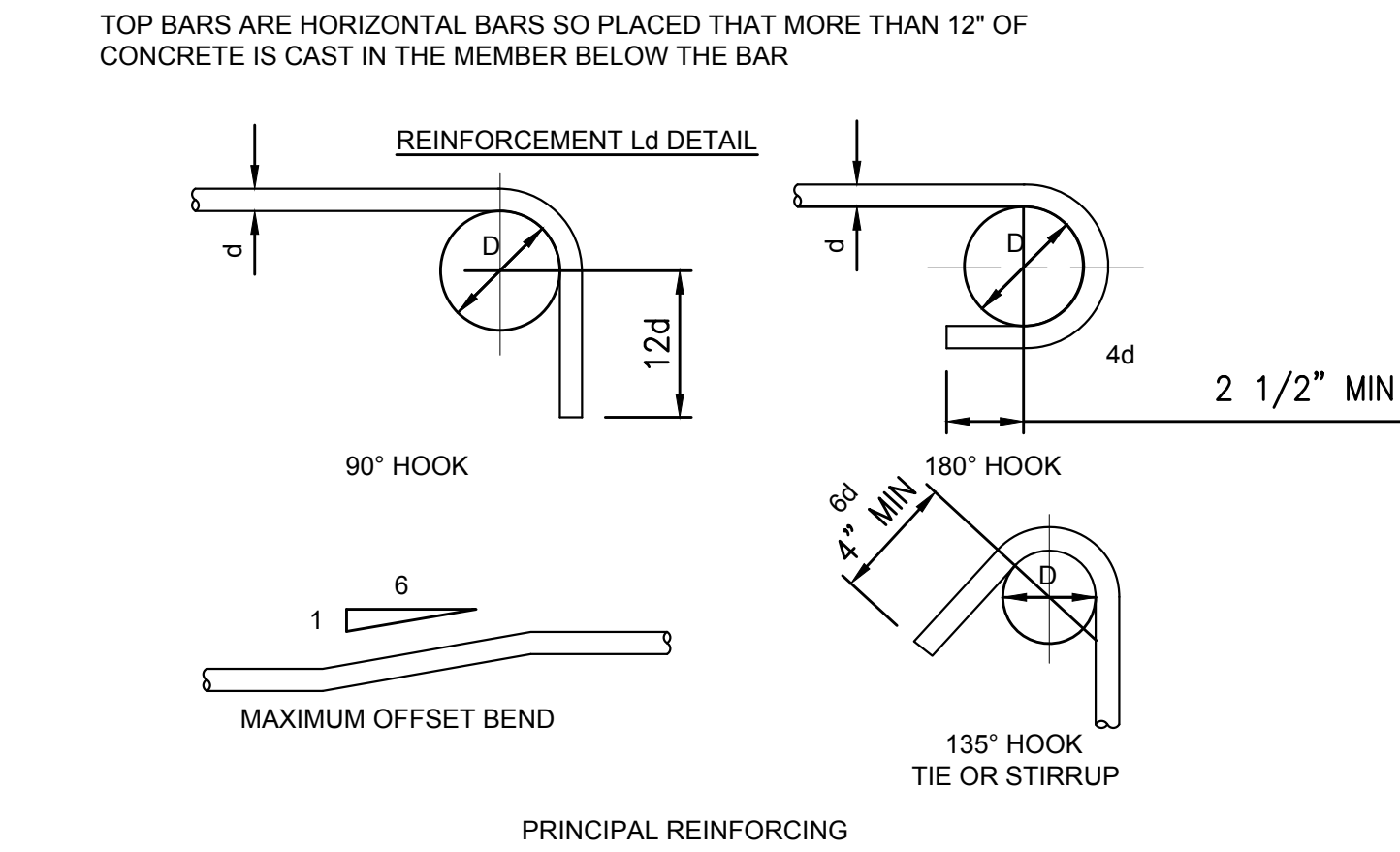
PRECAST CONCRETE UNITS:

- FABRICATION AND ERECTION OF PRECAST CONCRETE UNITS SHALL BE IN ACCORDANCE WITH PCI DESIGN HANDBOOK, 7TH EDITION, UNLESS OTHERWISE MODIFIED ON THE STRUCTURAL DRAWINGS OR IN THE SPECIFICATIONS.
- THE STRUCTURAL DRAWINGS REPRESENT THE COMPLETED STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING PLACEMENT OF EMBEDDED ITEMS, SHOP AND FIELD WELDING AND THE LOCATION OF ADDITIONAL OPENINGS OR EMBEDDED ITEMS.
- THE PRECAST CONCRETE MANUFACTURER IS RESPONSIBLE FOR PROVIDING ADDITIONAL REINFORCING AND EMBEDDED ITEMS THAT MAY BE REQUIRED FOR LIFTING, TRANSPORTING AND INSTALLING THE COMPLETED PANEL.
- ALL EXPOSED EDGES SHALL HAVE A 3/4" 45° CHAMFER.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE TECHNICAL REPRESENTATIVE FOR APPROVAL PRIOR TO THE START OF FABRICATION.
- REINFORCING BARS SHALL BE INSTALLED PER CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING.
- REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI SP-66 DETAILING MANUAL.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- WELDING OF REINFORCING BARS IS PROHIBITED.
- EMBEDDED ITEMS SHALL BE FREE FROM DIRT, RUST AND/OR GREASE. EMBEDDED ITEMS SHALL NOT BE PAINTED.
- ALL REBAR TO HAVE 90° HOOKS UNLESS DETAILED WITH 180° HOOKS OR 135° HOOKS.

INSPECTION: SEE SHEET C6.6

Ld INCHES

NOTE: EXTEND BAR STRAIGHT AS FAR AS POSSIBLE AND BEND.



- NOTES:
- ALL BENDS SHALL BE MADE COLD.
  - FOR D ETC SEE ACI-318 LATEST EDITION.

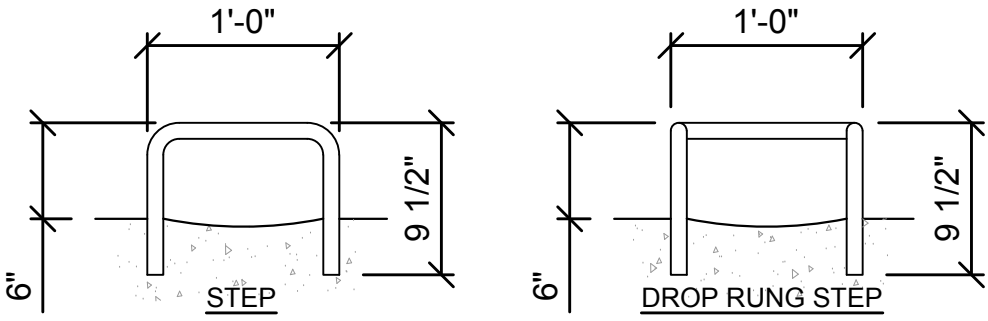
TYPICAL BAR BEND DETAILS

DEVELOPMENT LENGTH (ld) AND CLASS A AND B TENSION LAP SPlice LENGTH		
Bar Sizes	ld OR A	B
#3	19	25
#4	25	33
#5	31	41
#6	37	49
#7	54	71
#8	62	81
#9	70	91
#10	79	102
#11	87	114

REINFORCEMENT LAP SPLICES DETAIL

SCALE: NONE

- STEP NOTES:
- PROPRIETARY CATCH BASIN/MANHOLE STEPS OR APPROVED EQUAL.
  - CATCH BASIN STEP LEGS SHALL BE PARALLEL OR APPROXIMATELY RADIAL AT THE OPTION OF THE MANUFACTURER, EXCEPT THAT ALL STEPS IN ANY CATCH BASIN/MANHOLE SHALL BE SIMILAR. PENETRATION OF THE OUTER WALL IS PROHIBITED.



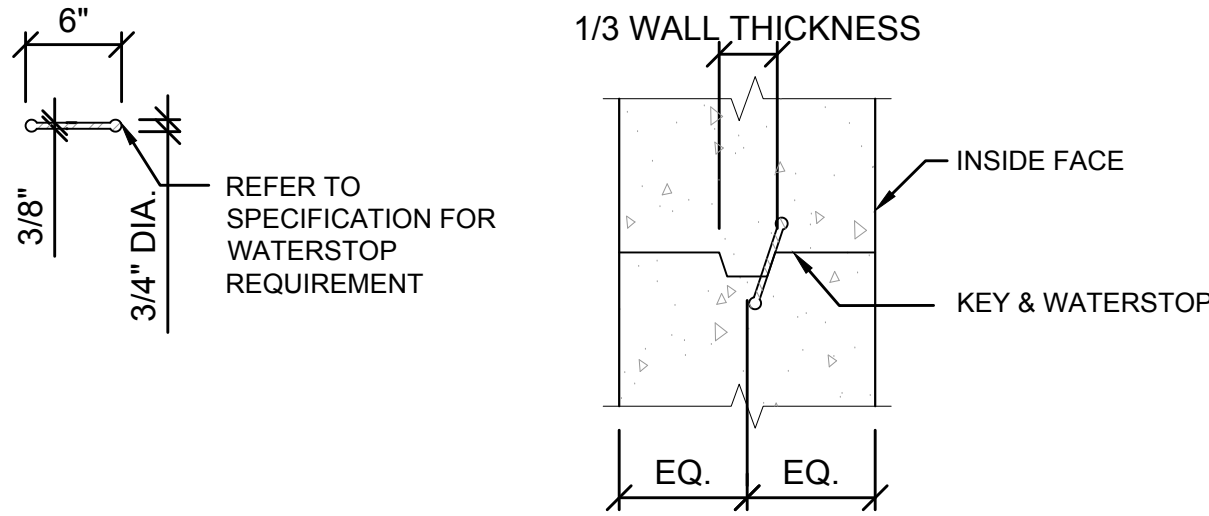
NOTE: STEPS TO BE #8 GALVANIZED DEFORMED REBAR, TYP.

TYPICAL MANHOLE/CATCH BASIN STEPS

SCALE: NONE

1

C6.5

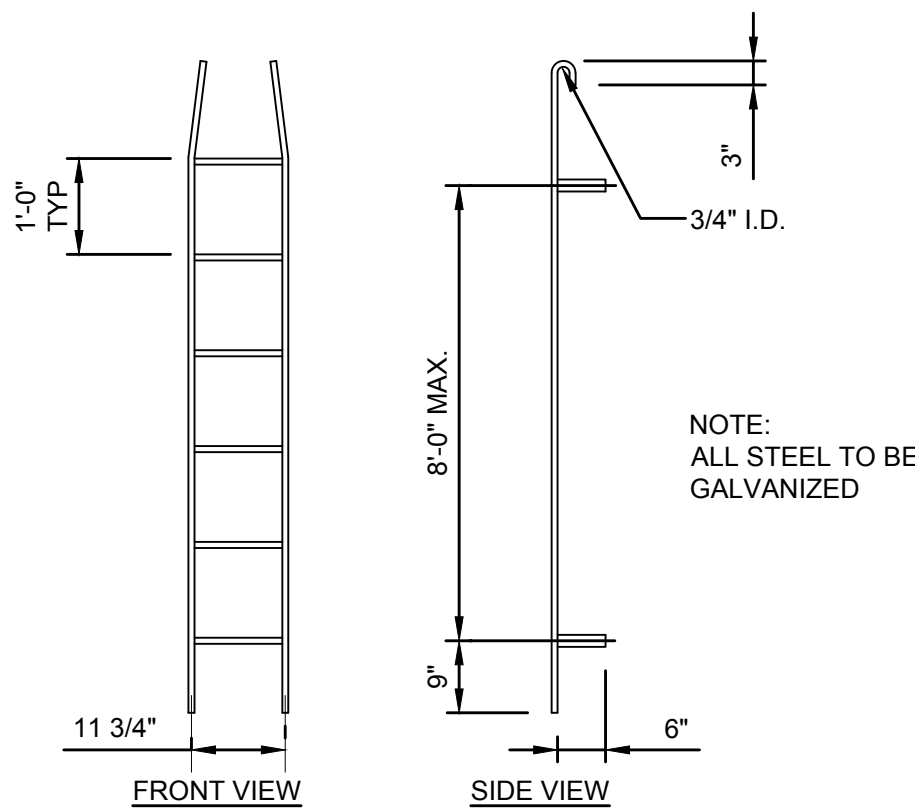


TYPICAL CONSTRUCTION JOINT DETAIL

SCALE: NONE

2

C6.5



PREFABRICATED LADDER DETAIL FOR PIPE CONFLICTS

SCALE: NONE

3

C6.5

ABBREVIATIONS:

%	PERCENT	MAX	MAXIMUM
&	AND	MECH	MECHANICAL DRAWINGS
L	ANGLE	MFR	MANUFACTURER
@	AT	MIN	MINIMUM
ADD'L	ADDITIONAL	MISC	MISCELLANEOUS
ALT	ALTERNATE	N/A	NOT APPLICABLE
APPROX	APPROXIMATE	NIC	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NO OR #	NUMBER
		NONE	NOT TO SCALE
		OC	ON CENTER
ATR	ALL THREADED ROD	OD	OUTSIDE DIAMETER
ARCH	ARCHITECTURAL	OPP	OPPOSITE
BLDG	BUILDING	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
CIP	CAST IN PLACE		OPEN TO STRUCTURE
CL OR C	CENTERLINE	OTS	PRE CAST CONCRETE
CMU	CONCRETE MASONRY	PC	PLATE
	UNIT(S)	PL OR P	POUNDS PER LINEAR FOOT
COL	COLUMN	PLF	PLYWOOD
COMM	COMMUNICATIONS	PROP	PROPOSED
CONC	CONCRETE	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUOUS	PSF	POUNDS PER SQUARE FOOT
COORD	COORDINATE	R	RADIUS
DEMO	DEMOLISH, DEMOLITION	RAD	RADIUS
DEPT	DEPARTMENT	REF	REFER TO
DET	DETAIL	REINF	REINFORCE, REINFORCING
DIA OR Ø	DIAMETER	SB	SAND BLASTED
DIM	DIMENSION	SCHED	SCHEDULE
DWG	DRAWING	SCWD	SOLID CORE WOOD DOOR
EA	EACH	SE	SOUTHEAST
EL OR ELEV	ELEVATION	SECT	SECTION
ELEC	ELECTRICAL	SF	SQUARE FEET
EQ	EQUAL	SIM	SIMILAR
EXIST	EXISTING	SPECS	SPECIFICATIONS
FDN	FOUNDATION	SQ	SQUARE
FF	FINISH FLOOR	SS	STAINLESS STEEL/ SANITARY SEWER
FT	FOOT OR FEET	STD	STANDARD
GA	GAUGE	STRUCT	STRUCTURE
GEN	GENERAL	SYM	SYMMETRICAL
GWB	GYPSSUM WALLBOARD	TBD	TO BE DETERMINED
HOR	HORIZONTAL	TO	TOP OF
HR	HOOR	TOC	TOP OF CONCRETE
HT	HEIGHT	TOS	TOP OF STEEL
HM	HOLLOW METAL	TOW	TOP OF WALL
HVAC	HEATING VENTILATING & AIR CONDITIONING	TS	TUBE STEEL
	INSIDE DIAMETER	TYP	TYPICAL
ID	INCH, INCHES	UBC	UNIFORM BUILDING CODE
IN	INTERIOR	UL	UNDERWRITERS LABORATORY
JT	JOINT	UNO	UNLESS NOTED OTHERWISE
K	KIP	W/	WITH
LF	LINEAR FEET	W/O	WITHOUT
LLH	LONG LEG HORIZONTAL	WHS	WELDED HEADED STUD
LLV	LONG LEG VERTICAL		
LOC	LOCATE, LOCATION		
MAS	MASONRY		

PART OF SECTION 22, T28N, R04E

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.

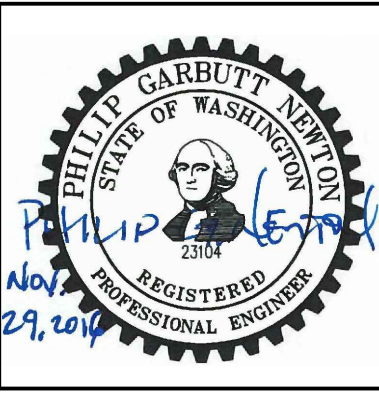
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO

DRAWN: AC  
JS

CHECKED: CT

APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

propeller airports

PROJECT TITLE:	PAINE FIELD PASSENGER TERMINAL
SHEET TITLE:	STRUCTURAL ELEMENTS FOR STORM DRAINAGE 1
SCALE:	AS SHOWN
DATE:	NOVEMBER 29, 2016

PFN NO:	16-109244 LDA
FAA AIP NO:	
SHEET NO:	C6.5



- STRUCTURAL STEEL:**
- DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STEEL CONSTRUCTION" OF AMERICAN INSTITUTE OF STEEL CONSTRUCTION, 13TH EDITION, UNLESS OTHERWISE MODIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
  - THE STRUCTURAL STEEL DRAWINGS AND DETAILS REPRESENT THE COMPLETED STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SHOP OR FIELD WELDING AND SHOP OR FIELD BOLTING OF THE ITEMS SPECIFIED IN THE CONTRACT DOCUMENTS.
  - SHOP CONNECTIONS SHALL BE WELDED OR MADE WITH HIGH STRENGTH BOLTS AS DETERMINED BY THE FABRICATOR UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
  - ALL FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS. HIGH STRENGTH BOLTS SHALL BE BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE, MINIMUM (2) 3/4" DIAMETER ASTM A325N PER CONNECTION UNLESS NOTED OTHERWISE.
  - STEEL ENCASED IN CONCRETE SHALL NOT BE PAINTED.
  - STAIRS AND PLATFORMS SHALL BE SHOP ASSEMBLED WHERE SHIPPING AND ERECTION WILL PERMIT. STAIRS AND PLATFORM NOT SHOP ASSEMBLED MUST BE APPROVED BY THE TECHNICAL REPRESENTATIVE PRIOR TO FABRICATION.
  - SHOP DRAWINGS SHALL BE SUBMITTED TO THE TECHNICAL REPRESENTATIVE FOR APPROVAL BEFORE STARTING FABRICATION.
  - WELDER CERTIFICATION PROCEDURES SHALL BE AS FOLLOWS:
    - ALL WELDERS SHALL BE CURRENTLY QUALIFIED AND REGISTERED BY WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO) AND/OR THE AMERICAN WELDING SOCIETY (AWS) AND, IF REQUIRED, ALL WELDERS SHALL HAVE THEIR QUALIFICATION RECORD FURNISHED TO THE TECHNICAL REPRESENTATIVE.
    - A COPY OF CERTIFIED WELDING PROCEDURES NOT PREQUALIFIED BY AWS SHALL BE SUBMITTED FOR REVIEW.
  - EXISTING AND NEW STEEL SURFACES TO BE WELDED SHALL BE CLEANED OF PAINT, GREASE, SCALE OR OTHER FOREIGN MATERIAL.
  - ALL FIELD WELDS SHALL BE WIRE BRUSHED AND CLEANED, THEN PRIMED.
  - MINIMUM WELD 3/16" UNO.
  - NO FIELD BURNING OF BOLT HOLES WILL BE ALLOWED. FIELD HOLES SHALL BE DRILLED AND REAMED.
  - ANCHOR BOLTS SHALL CONFORM TO ASTM A307 OR A325 AS INDICATED OR BE FABRICATED FROM ASTM A36 STEEL AND PROVIDED WITH HEAVY HEX NUTS UNLESS NOTED OTHERWISE.
  - SHOP PRIME AND PAINT ALL STRUCTURAL STEEL IN ACCORDANCE WITH THE SPECIFICATIONS. THE FOLLOWING SURFACES SHALL NOT RECEIVE PRIMER OR PAINT:
    - SURFACES EMBEDDED IN CONCRETE
    - GALVANIZED SURFACES
    - SURFACES SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING
    - CONTACT SURFACES FOR SLIP-CRITICAL BOLTED CONNECTIONS
    - SURFACES WITHIN 1/2" OF THE TOE OF THE FIELD
    - SURFACES ON WHICH METAL DECKING OR STUDS ARE TO BE WELDED AFTER ERECTION, FIELD TOUCH-UP PAINTED AREAS AND EXPOSED UNPAINTED AREAS PER THE SPECIFICATIONS.
  - DRILLED-IN CONCRETE ANCHORS SHALL BE KWIK BOLT II EXPANSION ANCHORS OR HVA OR HIT EPOXY ANCHORS MANUFACTURED BY HILTI OR ENGINEER-APPROVED EQUAL. USE GALVANIZED ANCHORS WHERE INDICATED ON THE DRAWINGS.
  - ALL STUD ANCHORS SHALL BE AUTOMATICALLY END-WELDED IN SHOP OR FIELD WITH EQUIPMENT RECOMMENDED BY THE MANUFACTURER OF STUDS. STEEL STUD MATERIAL, WELDING AND INSPECTION SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY, AWS D1.1.
  - SPLICES OF STRUCTURAL MEMBERS NOT PERMITTED UNLESS SPECIFICALLY NOTED ON DRAWINGS.

- INSPECTION GENERAL NOTES:**
- THE ITEMS CHECKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH CHAPTER 17 OF IBC 2006 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY PROCURED BY THE TECHNICAL REPRESENTATIVE. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO PROJECT SPECIFICATIONS, THE STRUCTURAL NOTES AND THE NOTES BELOW. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE TECHNICAL REPRESENTATIVE. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE TECHNICAL REPRESENTATIVE. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
  - CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION (UBC 1701.6.1). PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.
  - ALL WELDS SHALL BE VISUALLY INSPECTED.
  - ALL COMPLETE PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY OR AS OTHERWISE SPECIFIED, OR BY USING ANOTHER APPROVED METHOD.
  - ONLY PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WELDING OF ASTM A706 REINFORCING STEEL NOT GREATER THAN NO. 5 USED FOR EMBEDMENTS, PROVIDE THE MATERIALS, QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS ARE VERIFIED PRIOR TO THE START OF WORK; PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS; AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO COMPLETION OR PRIOR TO SHIPMENT OF SHOP WELDING.
  - INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE TO THE TECHNICAL REPRESENTATIVE.
  - INSPECTION OF DRILLED CONCRETE ANCHORS, INCLUDING EXPANSION AND ADHESIVE GROUTED ANCHORS, WHERE SPECIFIED, SHALL INCLUDE VISUAL VERIFICATION OF DRILLED HOLE DEPTH, SPACING, EDGE DISTANCES AND HOLE CLEANING. FOR GROUTED ANCHORS, GROUT INSTALLATION SHALL BE OBSERVED AND GROUT PRODUCT SPECIFICATION AND PREPARATION SHALL BE VERIFIED.
  - CONTRACTOR SHALL NOTIFY TECHNICAL REPRESENTATIVE TWO WEEKS PRIOR TO COMMENCING WORK THAT REQUIRES INSPECTION. CONTRACTOR SHALL SUBMIT A SCHEDULE OF DAYS (HOURS FOR PARTIAL DAYS) REQUIRING SPECIAL INSPECTORS ON SITE FOR CONTINUOUS AND PERIODIC INSPECTIONS.

GENERAL INSPECTION PROGRAM:

ITEM	CONTINUOUS INSPECTION	PERIODIC INSPECTION	COMMENTS
CONCRETE			

REINFORCING PLACEMENT		X	
ANCHOR BOLTS AND INSERTS		X	
PREPARATION OF TEST SPECIMENS	X		
CONCRETE PLACEMENT	X		
ADHESIVE ANCHOR PLACEMENT	X		REF. NOTE 7
EXPANSION ANCHOR PLACEMENT	X		REF. NOTE 7
EMBEDDED PLATES		X	

STRUCTURAL STEEL			
FABRICATION AND ERECTION	X		
SHOP AND FIELD WELDING (STR. STL.)			
SINGLE PASS FILLET WELDS < 5/16"		X	REF. NOTE 3
FILLET WELDS > 5/16"	X		REF. NOTE 3

PREFAB CONSTRUCTION			
PREFAB CONSTRUCTION		X	REF. NOTE 6

SOIL			
FOUNDATION EXCAVATIONS, BEARING STRENGTH, PREPARATION		X	

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.

R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO

DRAWN: AC  
JS

CHECKED: CT

APPROVED: PGN

PHILIP GARbutt  
STATE OF WASHINGTON  
2304  
REGISTERED PROFESSIONAL ENGINEER  
NOV 29, 2014


PHILIP GARbutt  
2304  
REGISTERED PROFESSIONAL ENGINEER

AECOM

Airport Services


1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



SNOHOMISH COUNTY AIRPORT

PAINE FIELD EVERETT, WA



PROJECT TITLE:  
PAINE FIELD PASSENGER TERMINAL

SHEET TITLE:  
STRUCTURAL ELEMENTS FOR STORM DRAINAGE 2

SCALE:  
AS SHOWN

DATE:  
NOVEMBER 29, 2016

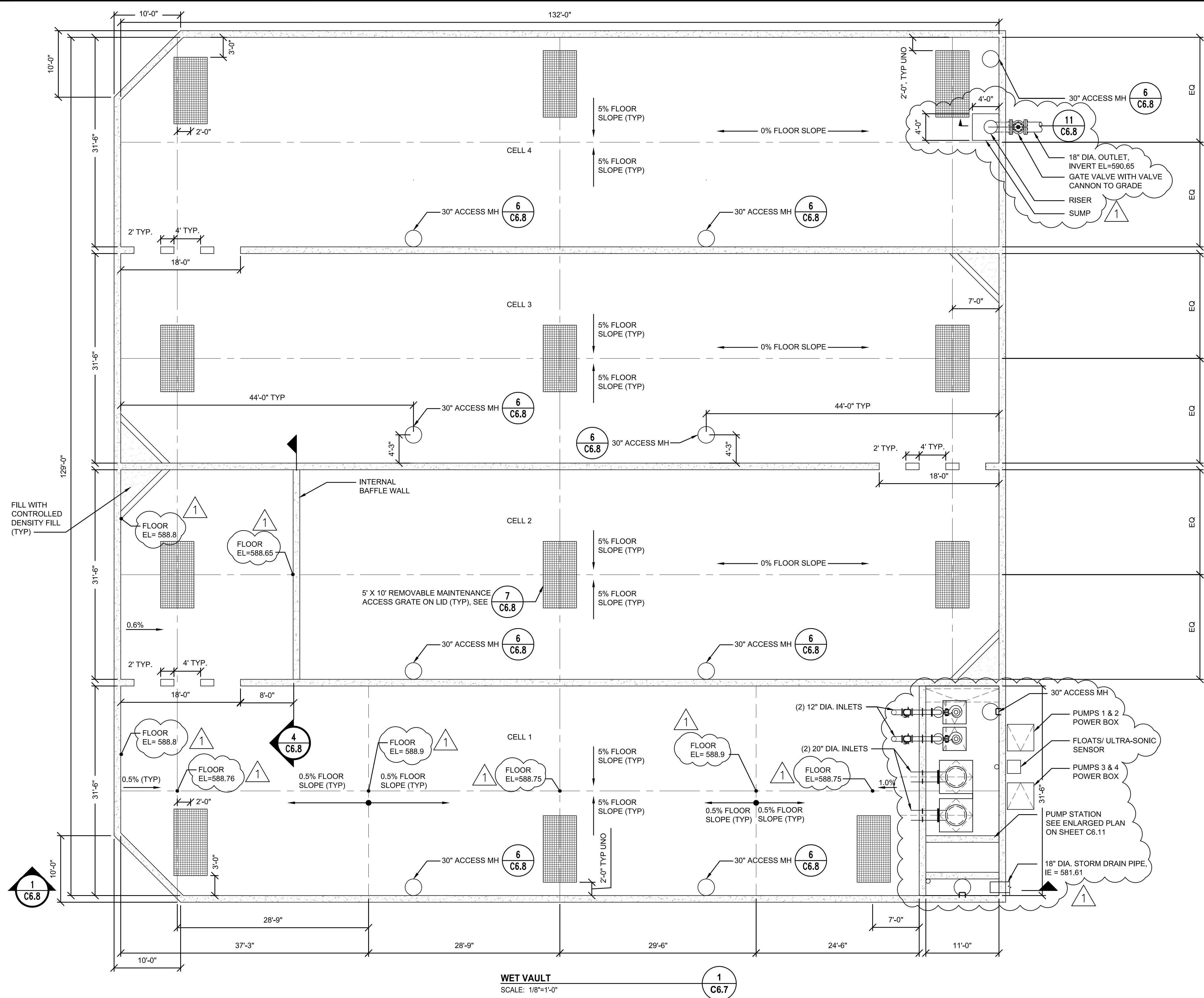
PFN NO.:  
16-109244 LDA

FAA AIP NO.:

SHEET NO.:

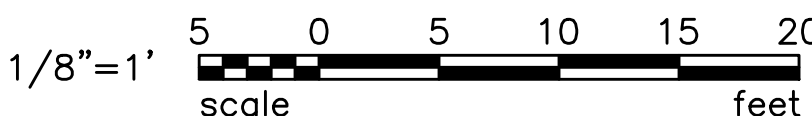
C6.6





NOTES

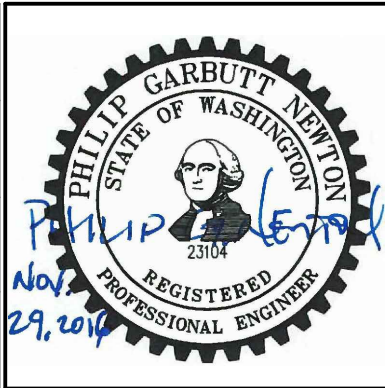
1. PROVIDE FOOTING DRAIN (NOT SHOWN) AROUND STRUCTURE. CONNECT FOOTING DRAINS TO MANIFOLD STRUCTURE AND PROVIDE TIDEFLEX CHECK VALVE (OR EQUAL).



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

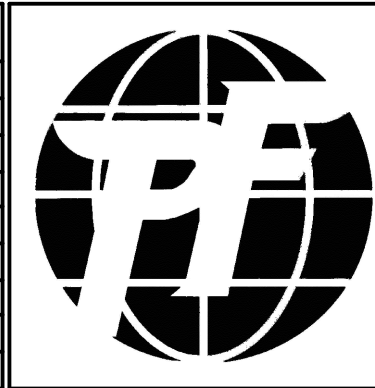
DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

propeller airports

PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL

SHEET TITLE: STORM WATER DETAILS - WET VAULT 1

SCALE: AS SHOWN

DATE: NOVEMBER 29, 2016

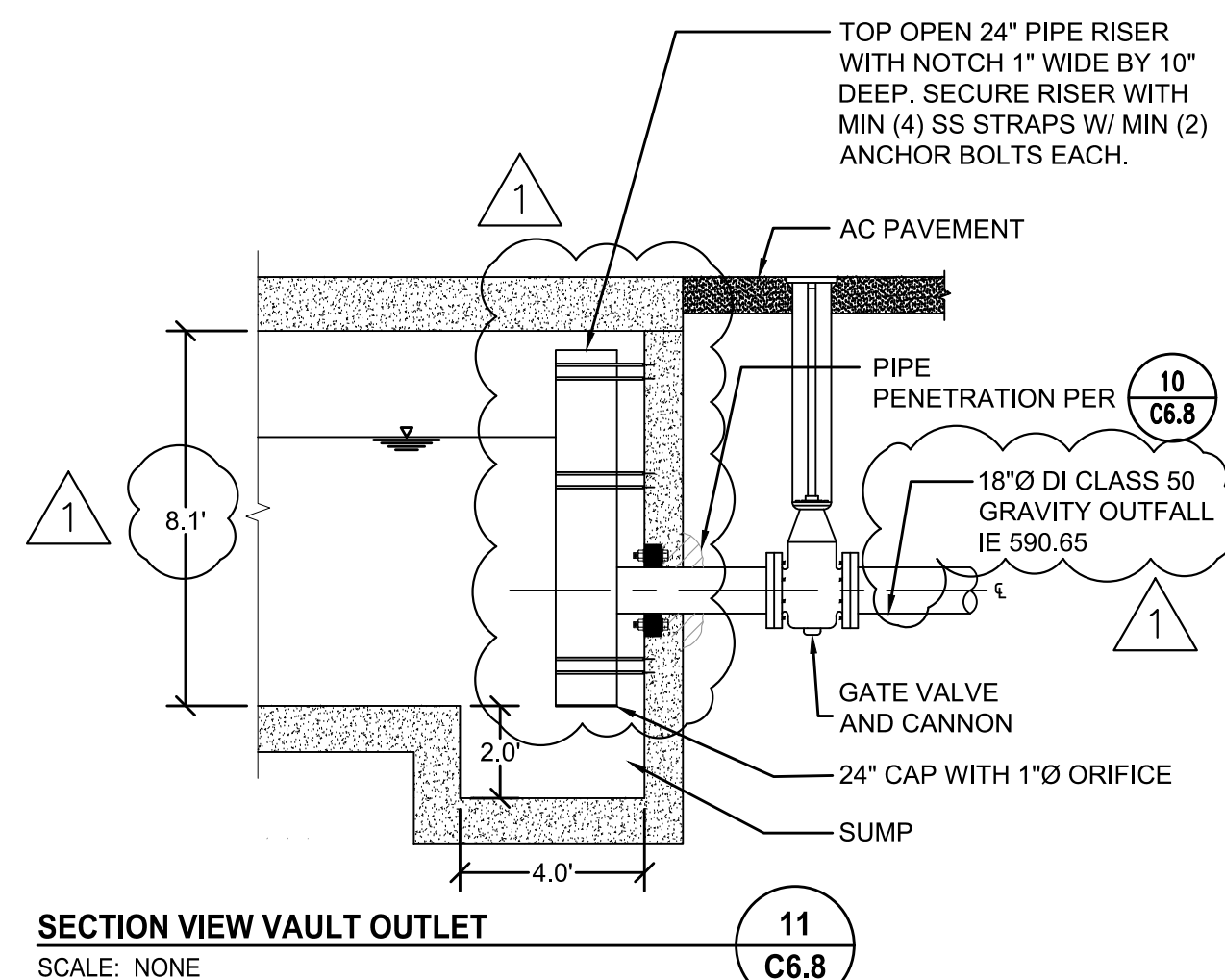
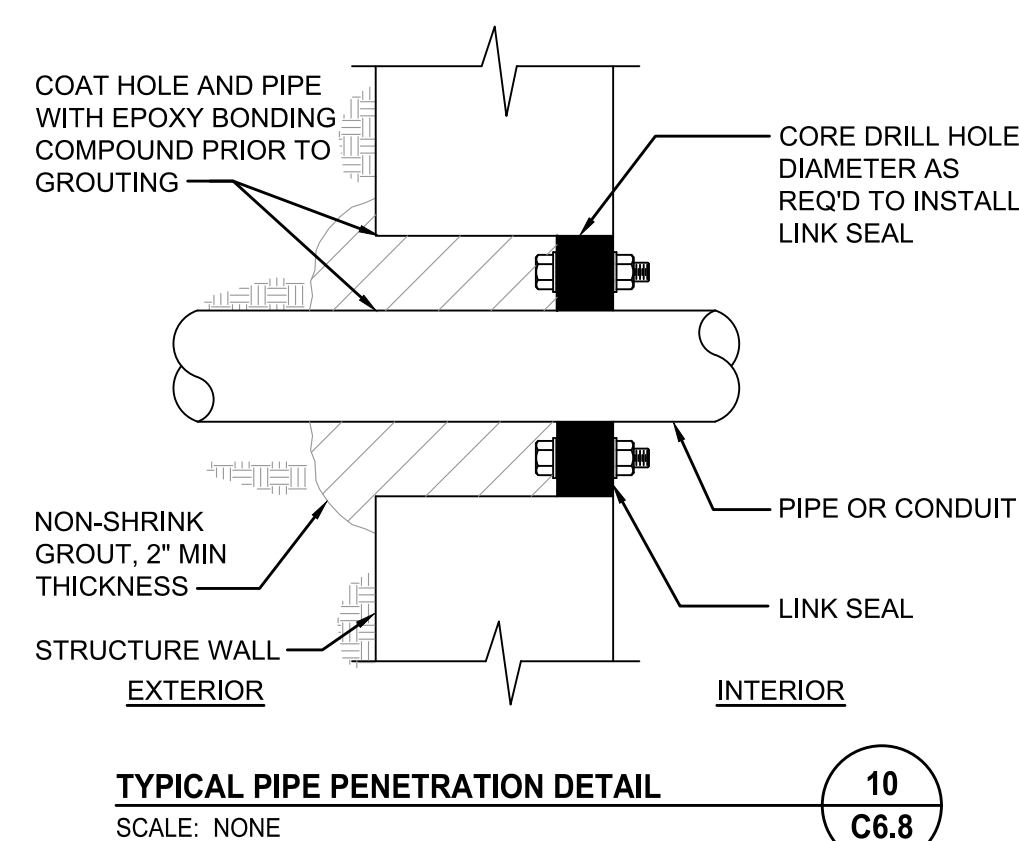
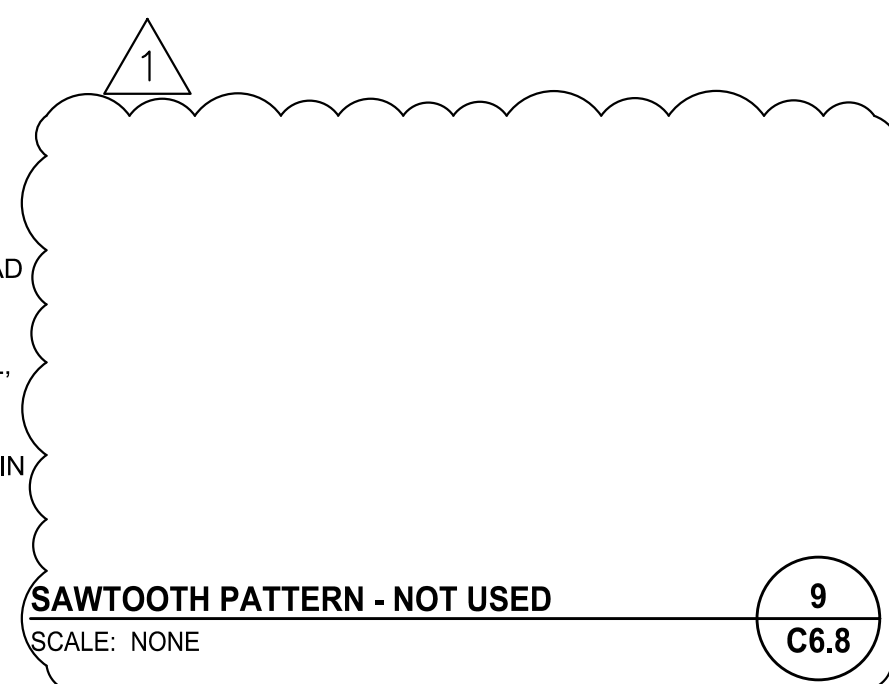
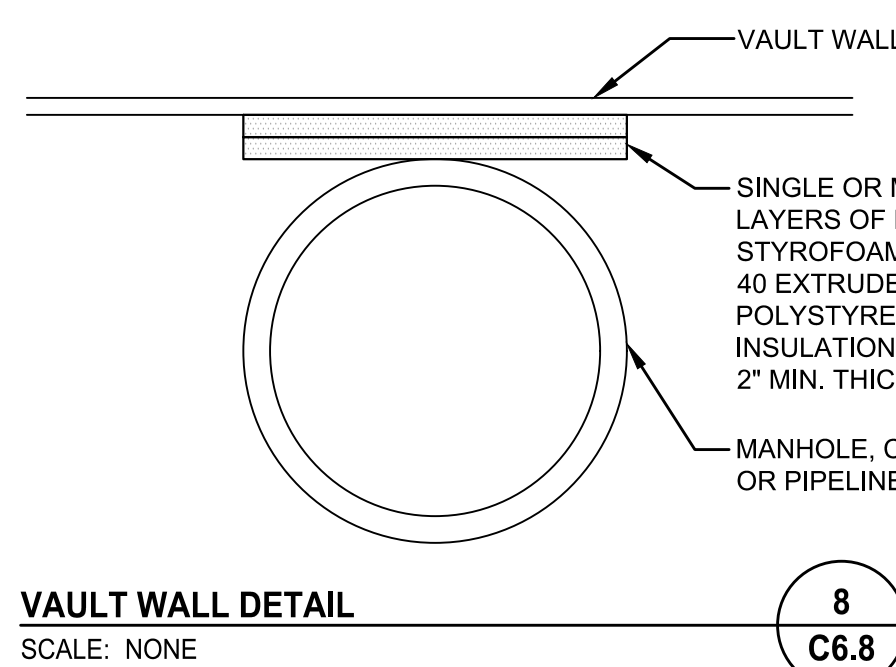
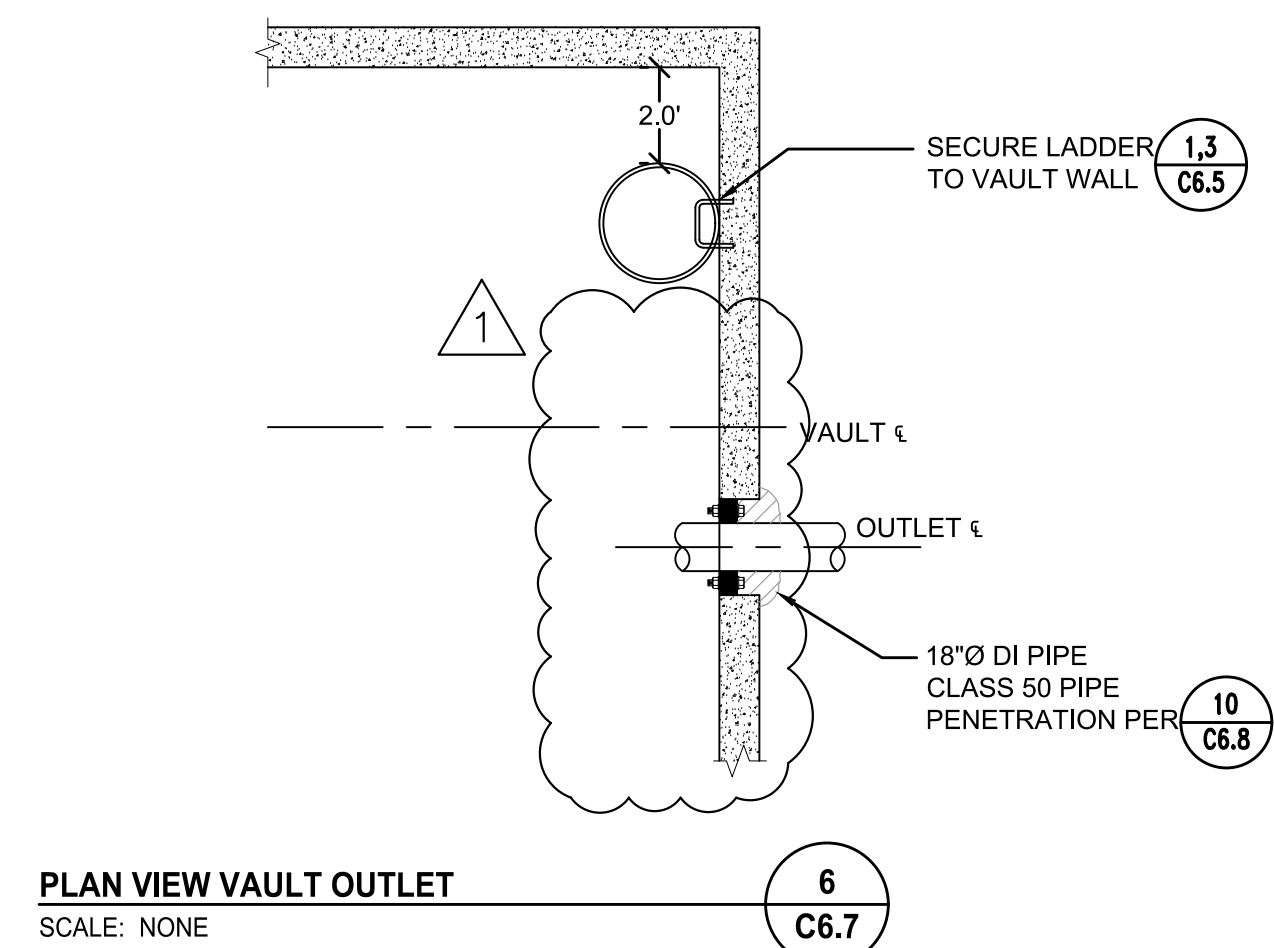
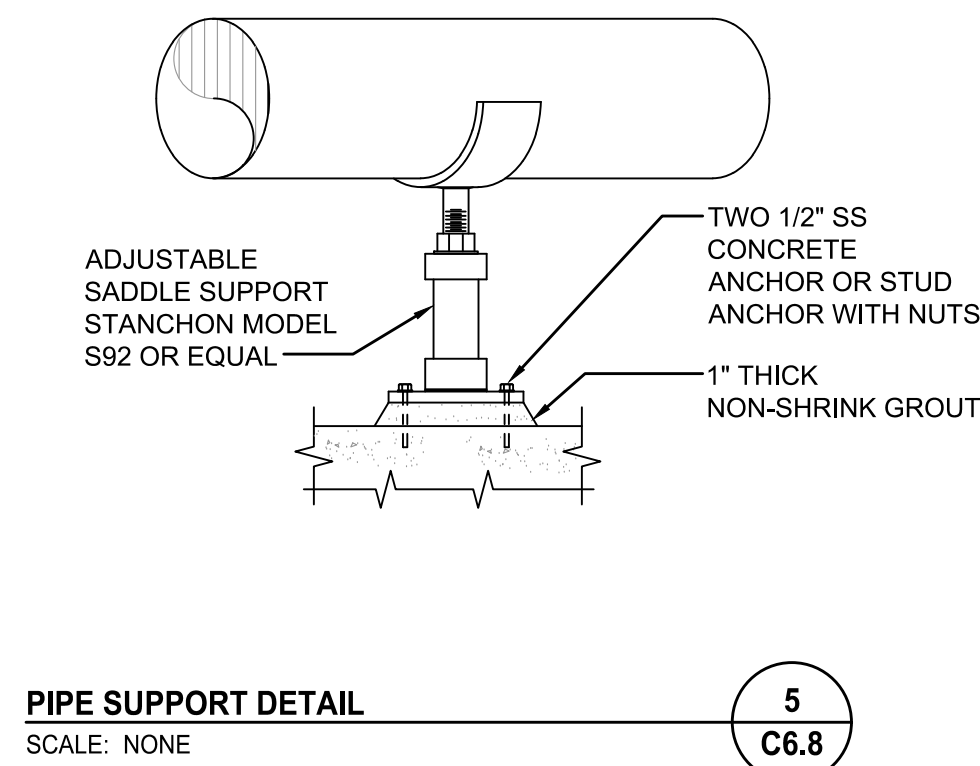
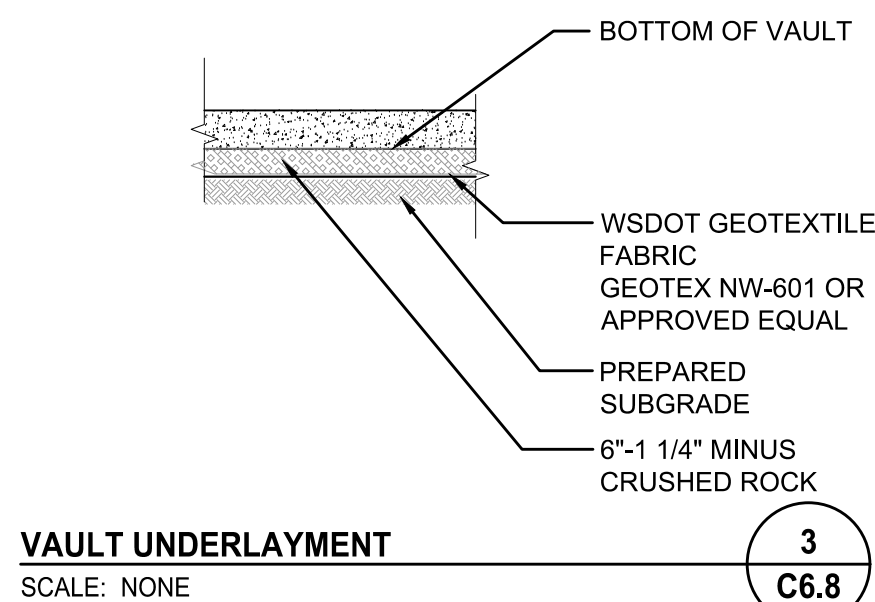
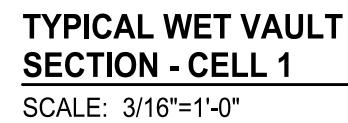
PFN NO.: 16-109244 LDA

FAA AIP NO.:

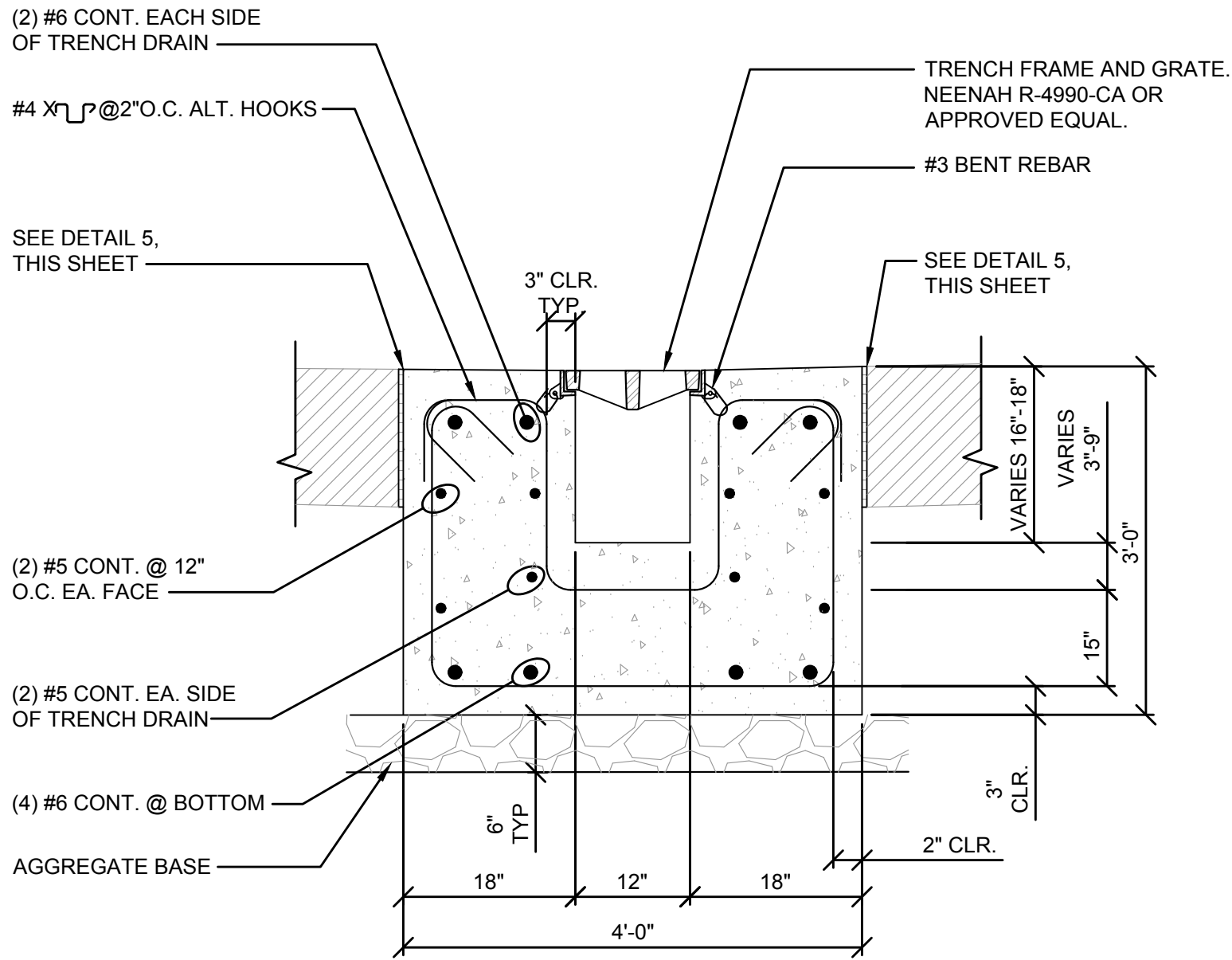
SHEET NO.: **C6.7**

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL









TRENCH DRAIN SECTION  
SCALE: NONE

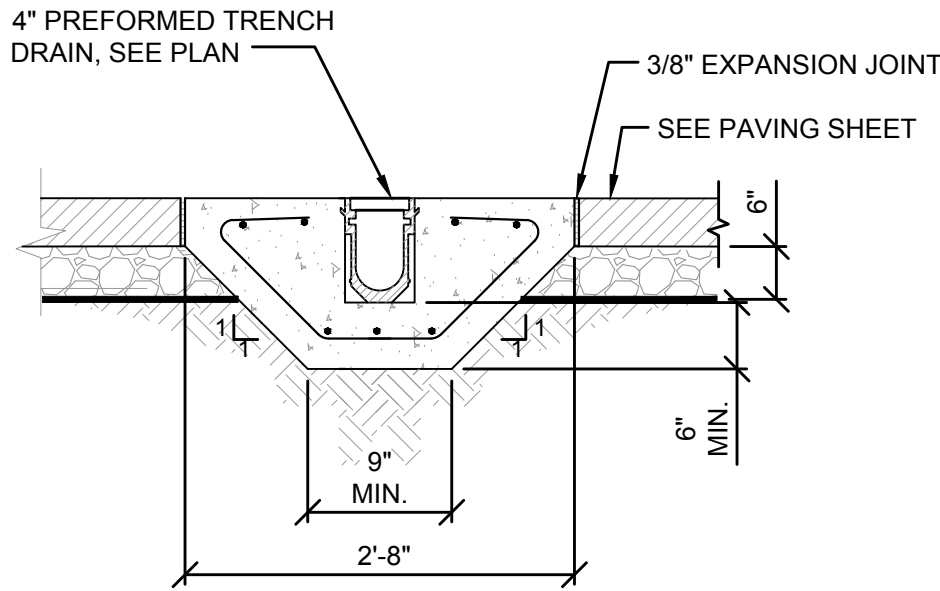
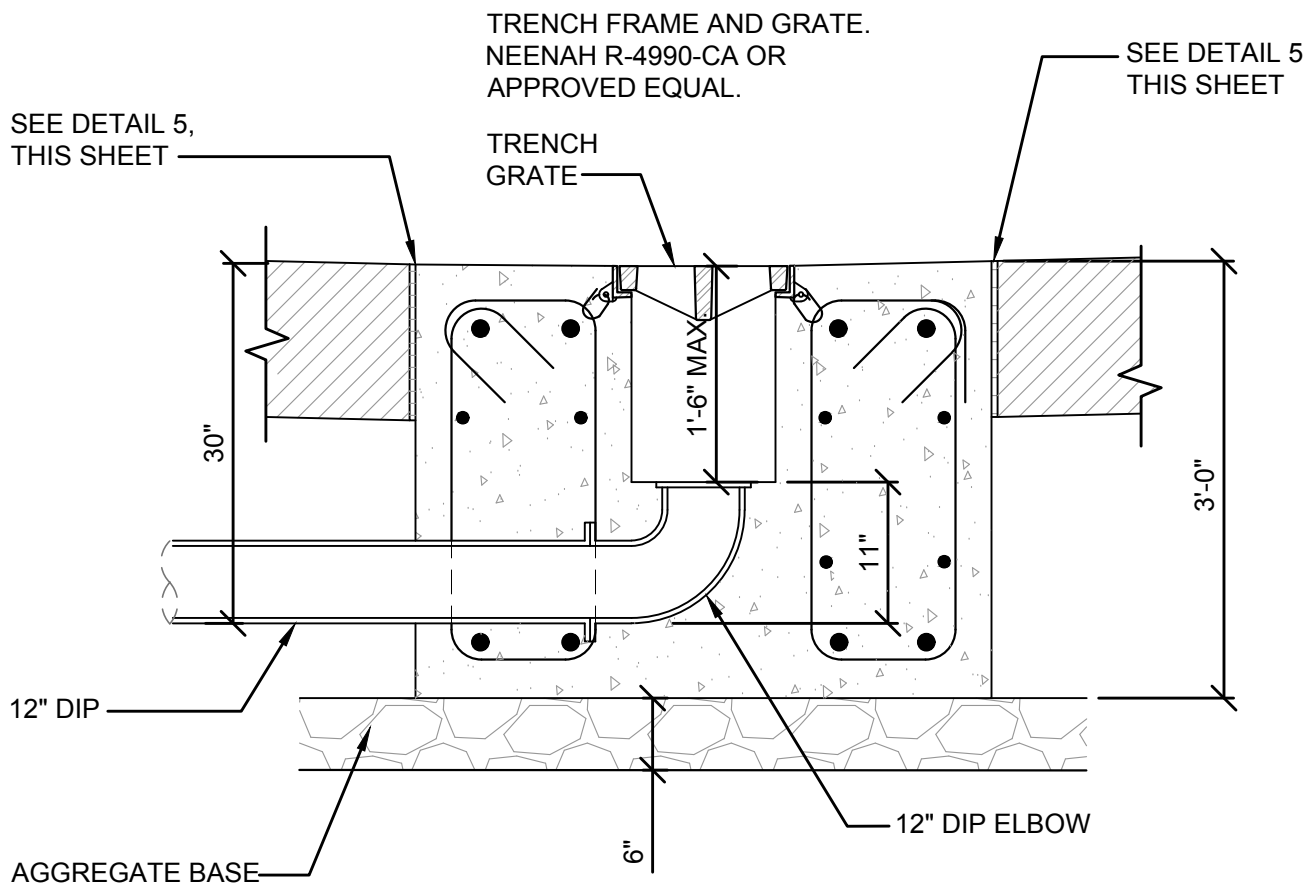
1  
C6.9

FIRE STOP SECTION - NOT USED  
SCALE: NONE

2  
C6.9

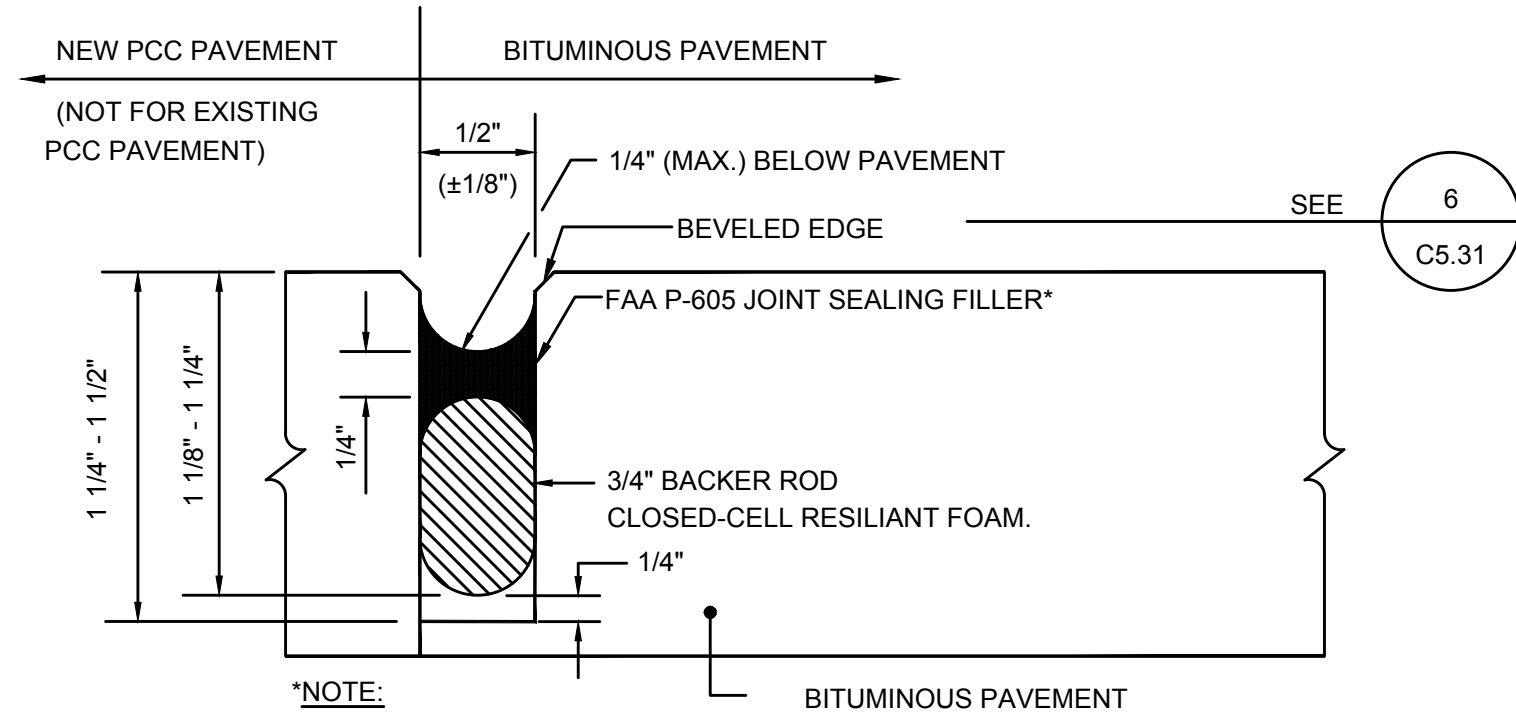
DRAIN OUTLET SECTION  
SCALE: NONE

3  
C6.9



TRENCH DRAIN SECTION  
SCALE: NONE

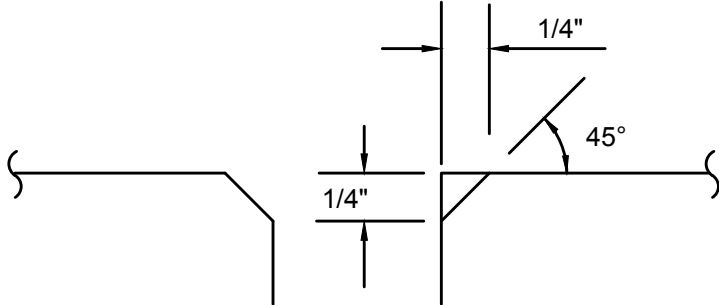
4  
C6.9



JOINT SEALER FILLER FOR PCC/BITUMINOUS PAVEMENT JOINT MUST BE AN ULTRA LOW MODULUS JOINT SEALANT THAT IS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR USE IN BOTH BITUMINOUS AND PORTLAND CEMENT CONCRETE PAVEMENTS AND MEETS ALL REQUIREMENTS OF ASTM D5893.

PCC / BITUMINOUS PAVEMENT DETAIL  
SCALE: NONE

5  
C6.9



BEVELED EDGE DETAIL  
SCALE: NONE

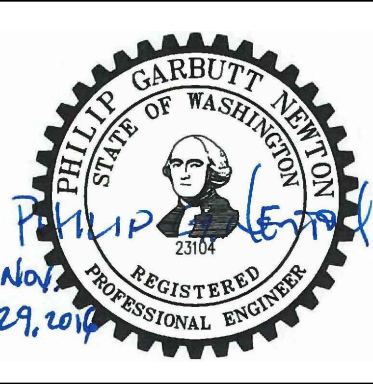
6  
C6.9

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.

R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



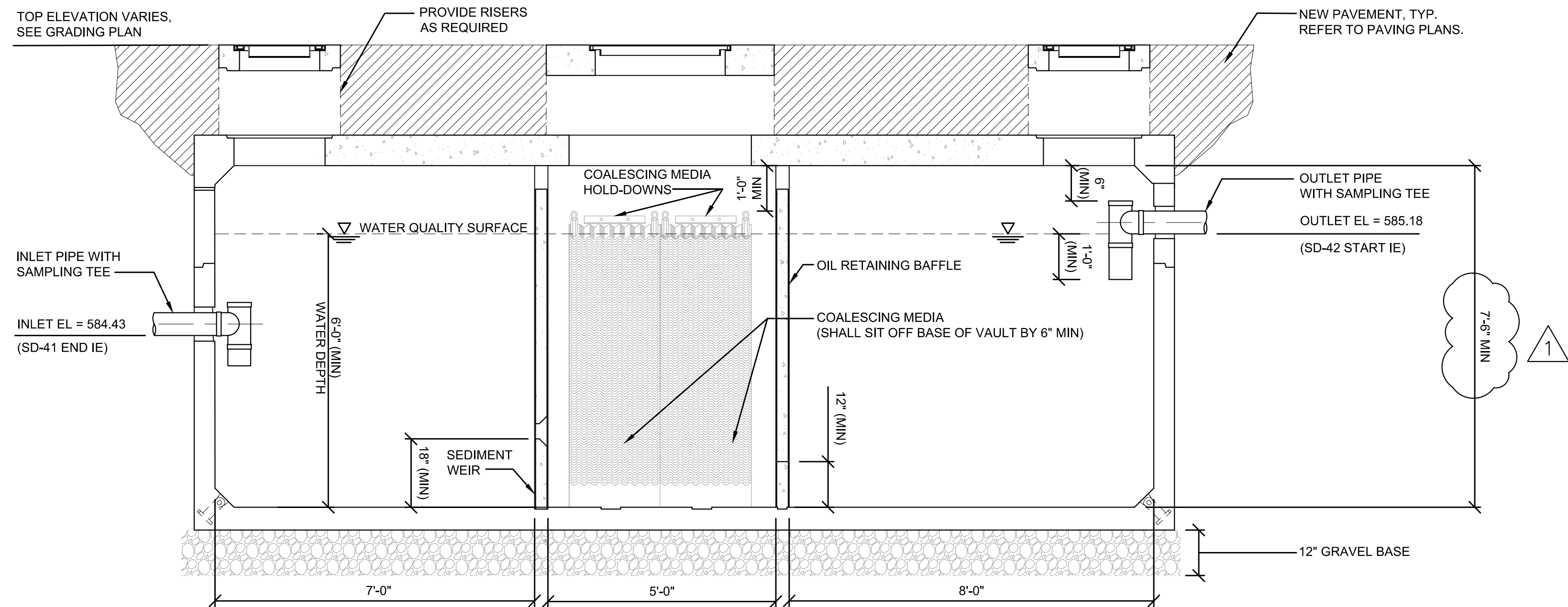
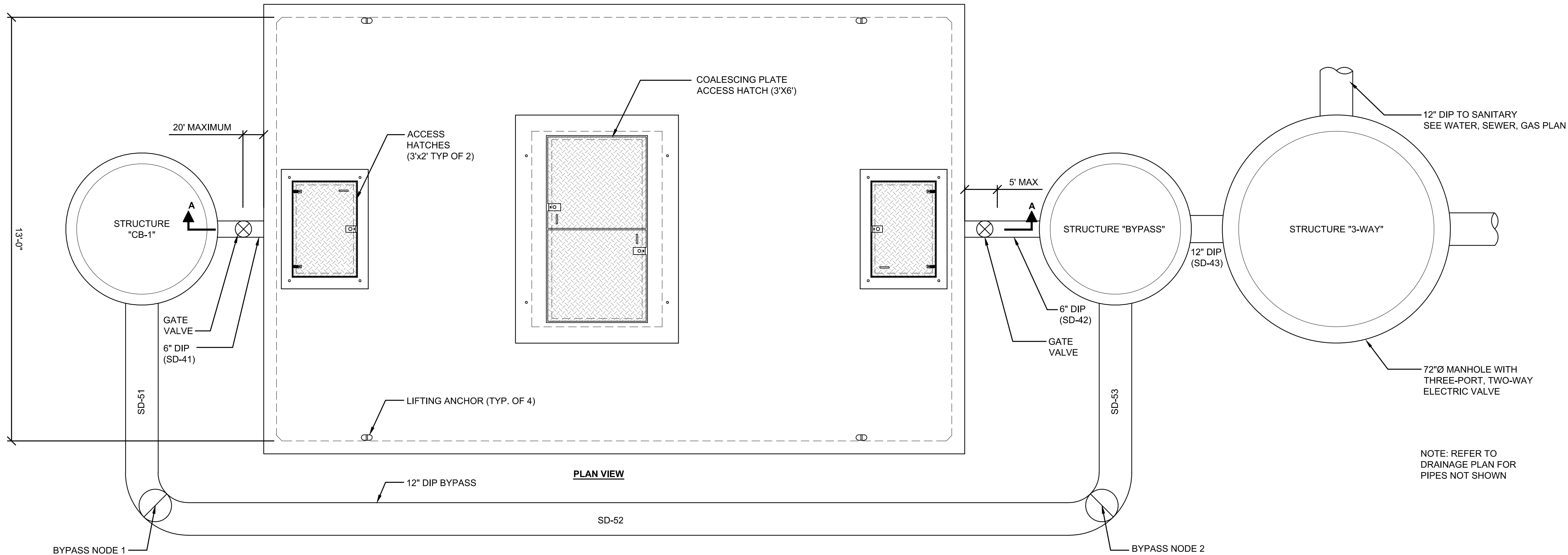
**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**



PROJECT TITLE:	PAINE FIELD PASSENGER TERMINAL
SHEET TITLE:	STORM WATER DETAILS
SCALE:	AS SHOWN
DATE:	NOVEMBER 29, 2016

PFN NO.:	16-109244 LDA
FAA AIP NO.:	
SHEET NO.:	C6.9





**OIL/WATER SEPARATOR DETAIL  
PLAN AND SECTION**  
SCALE: NONE

1  
C6.10

- NOTES:
1. REFER TO SHEET C6.5 FOR LOADING CRITERIA.
  2. PROCESS FLOW RATE IS 500 GPM (MIN.).
  3. AREA OF THE COALESCING PLATES SHALL BE 1000 SF MINIMUM.
  4. VOLUME OF OWS SHALL BE 800 CF (MIN.) FOR PLATES WITH 1/2-INCH SPACING AND INCLINED 60 DEGREES.
  5. OWS SHALL BE IN ACCORDANCE WITH SWMM V2012.
  6. STRUCTURE TO BE SET IN ACTIVE AIRCRAFT BOARDING AREA AND SHALL BE SET FLUSH.
  7. OIL WATER SEPARATOR DESIGN TO BE COMPLETE BY VENDOR IN ACCORDANCE WITH SPECIFICATIONS. DIMENSIONS SHOWN ARE APPROXIMATE AND SHALL BE ADJUSTED BY VENDOR.
  8. BYPASS TO ENGAGE AT FLOWS GREATER THAN 500 GPM.

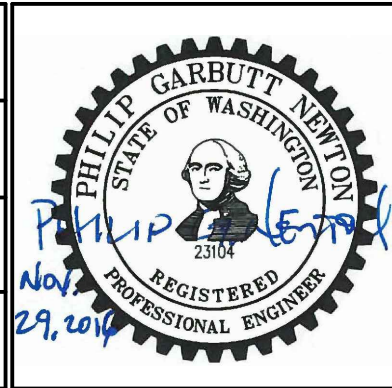
FILE NAME: C:\Box Sync\PAE\_Possenger Terminal Project\01 CAD\02 Sheets\C6.1 - Drainage Details.dwg PLOTTED: Wednesday, November 30, 2016 - 3:09pm USER: jason.zhou1

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.

R/W PERMIT NO. \_\_\_\_\_

DESIGNED:	PGN
DRAWN:	GF
CHECKED:	BO
APPROVED:	AC
	JS
	CT
	PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL

**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

PROJECT TITLE:	PAINE FIELD PASSENGER TERMINAL
SHEET TITLE:	STORM WATER DETAILS - OIL WATER SEPARATOR
SCALE:	AS SHOWN
DATE:	NOVEMBER 29, 2016

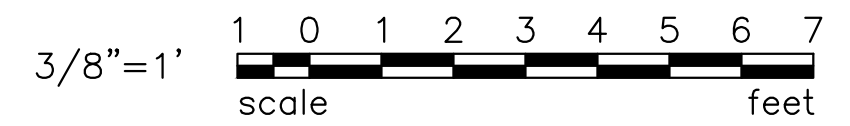
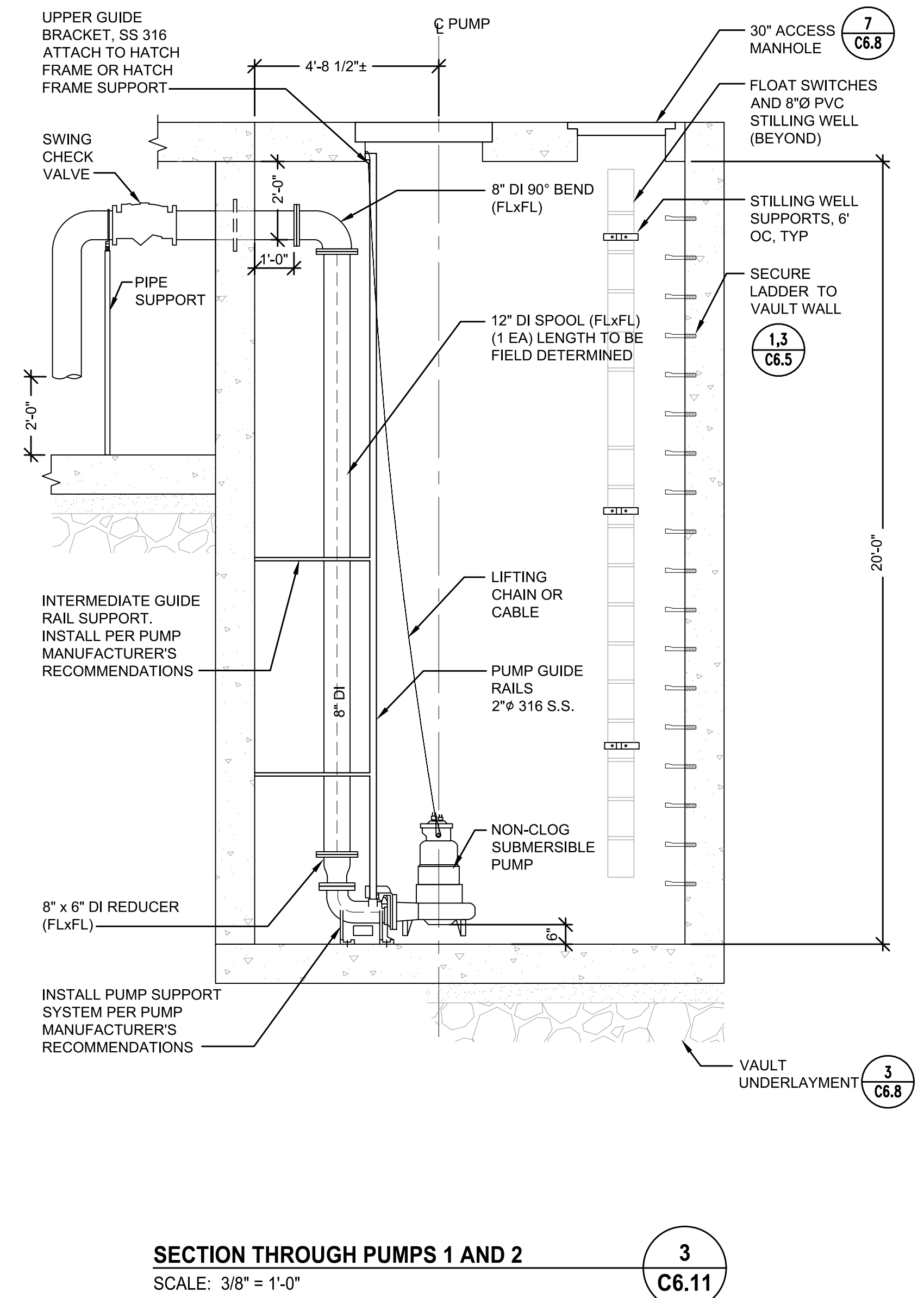
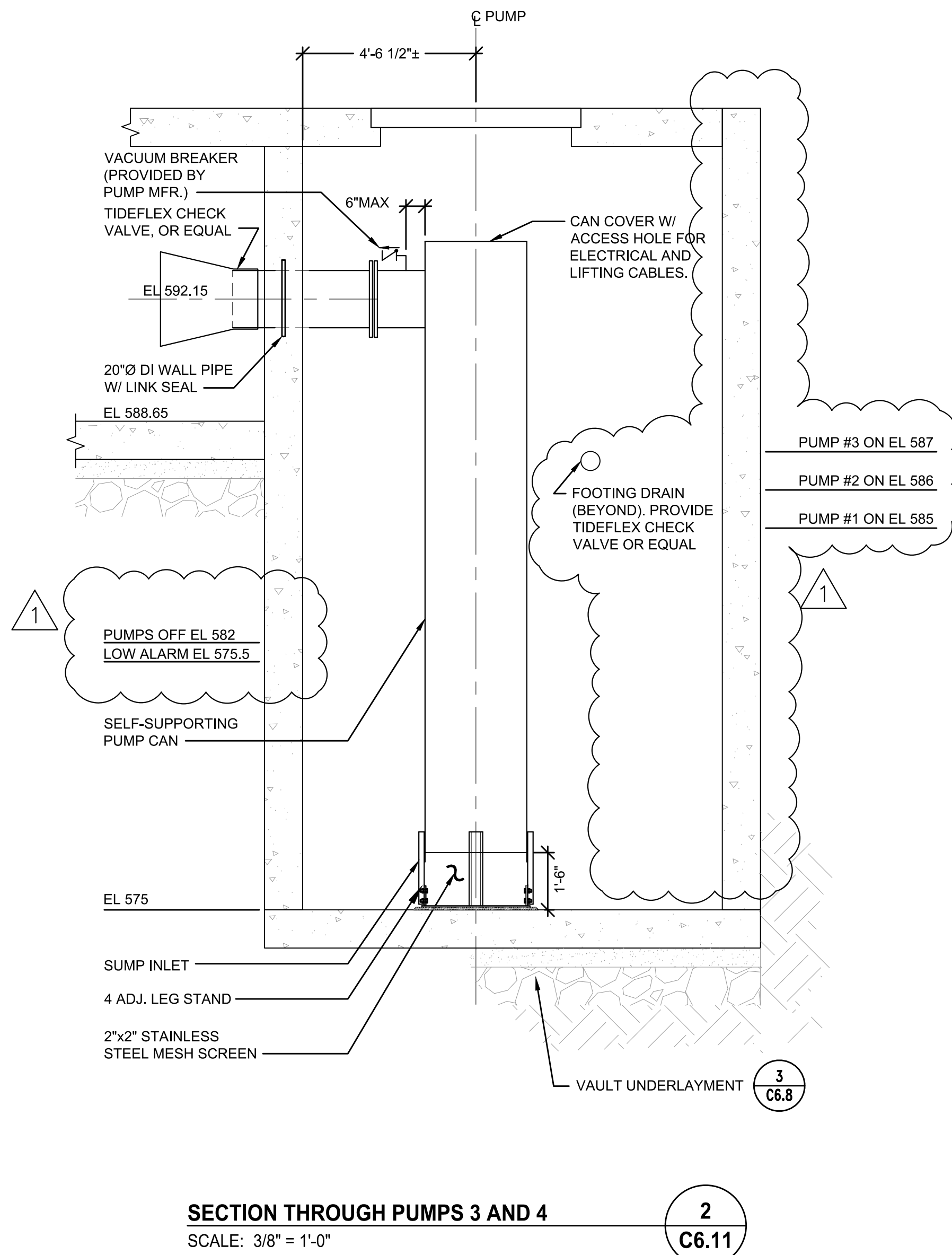
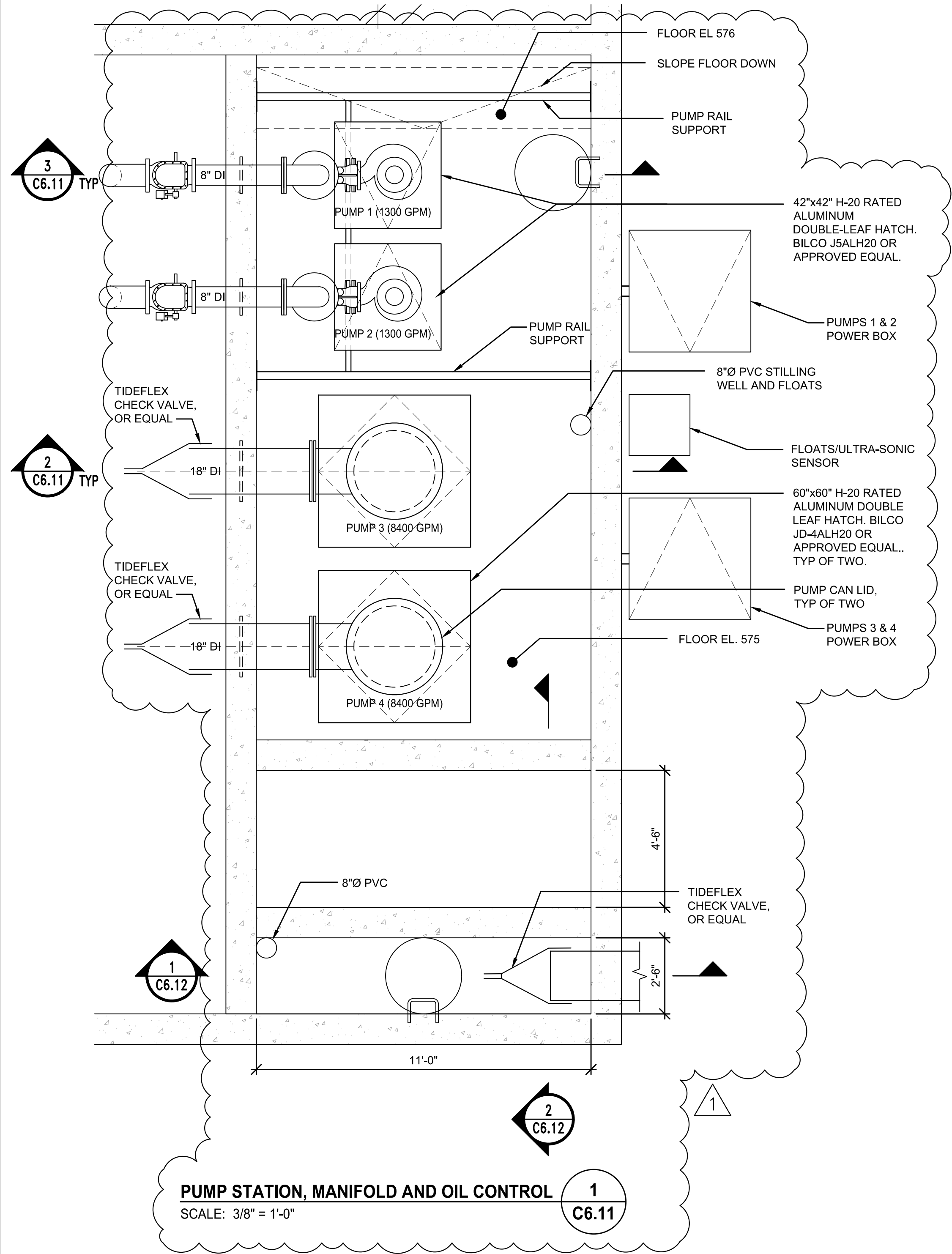
PFN NO.: 16-109244 LDA

FAA AIP NO.: \_\_\_\_\_

SHEET NO.: **C6.10**

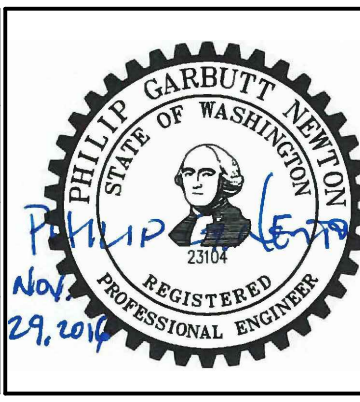
LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL





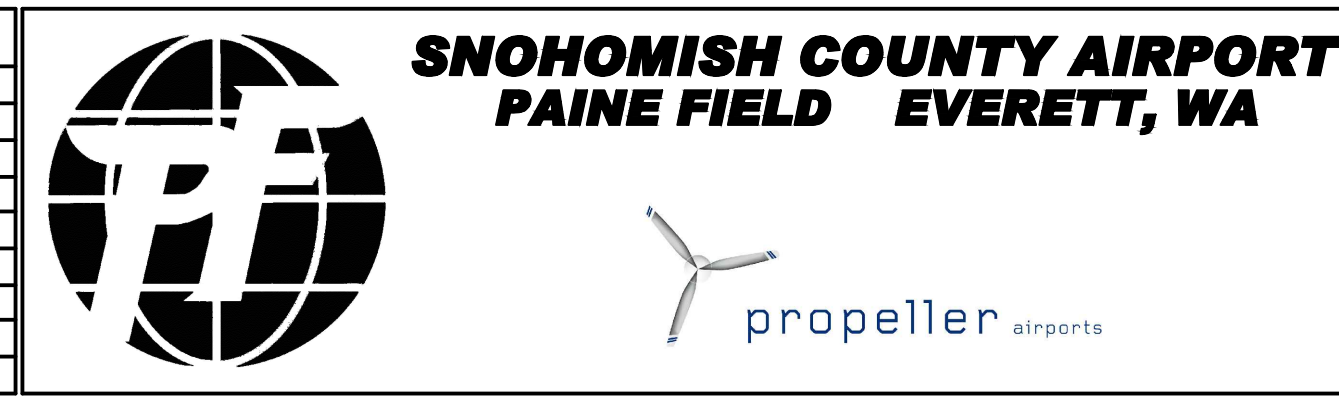
Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION  
BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services  
1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL

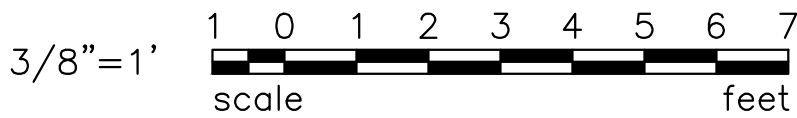
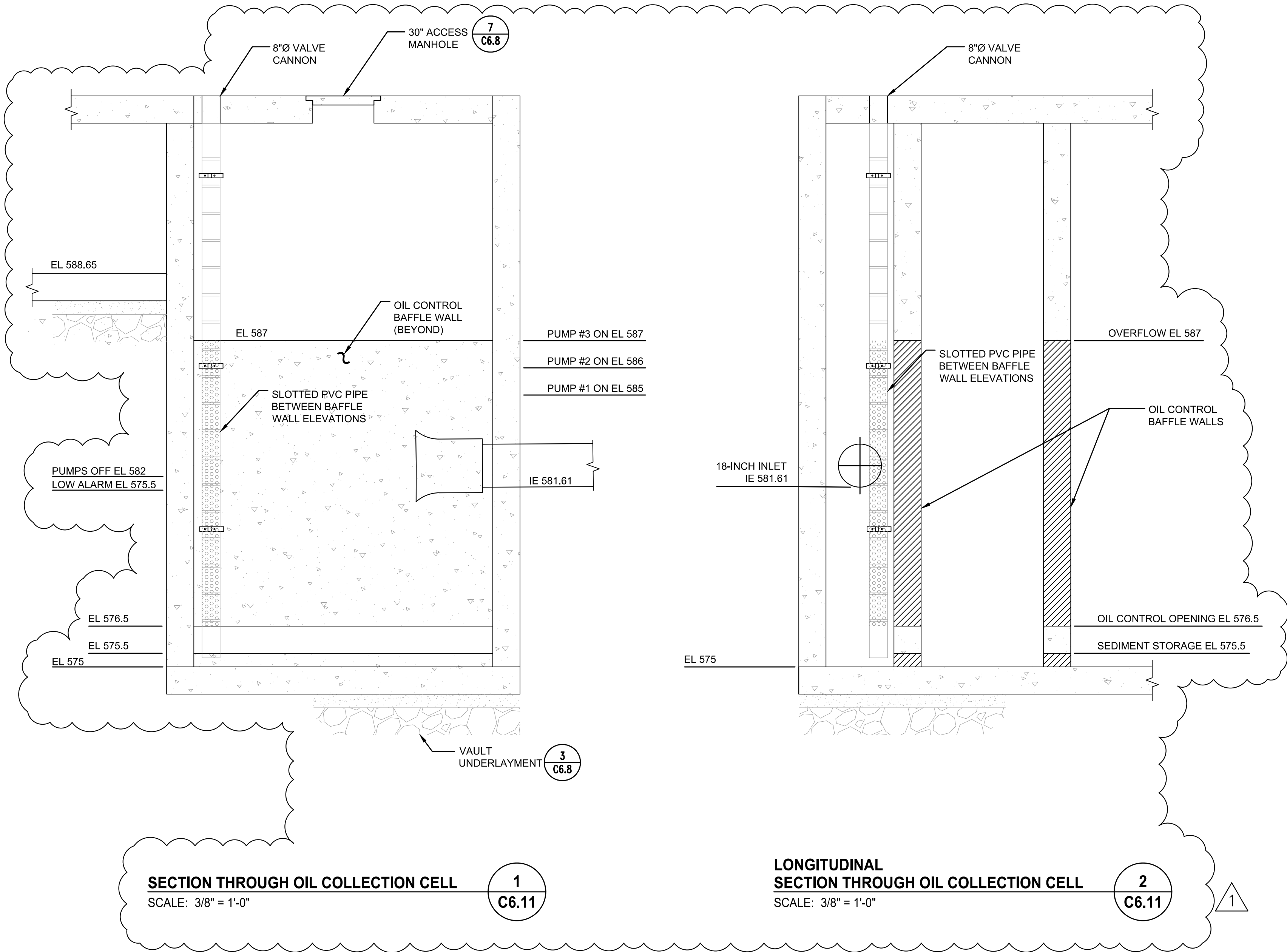


PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL  
SHEET TITLE: STORM WATER PUMP STATION  
SCALE: AS SHOWN  
DATE: NOVEMBER 29, 2016

PFN NO.: 16-109244 LDA  
FAA AIP NO.:  
SHEET NO.:  
**C6.11**

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL

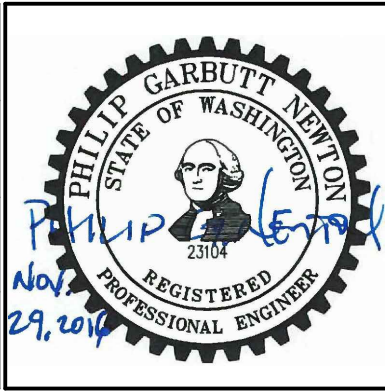




Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

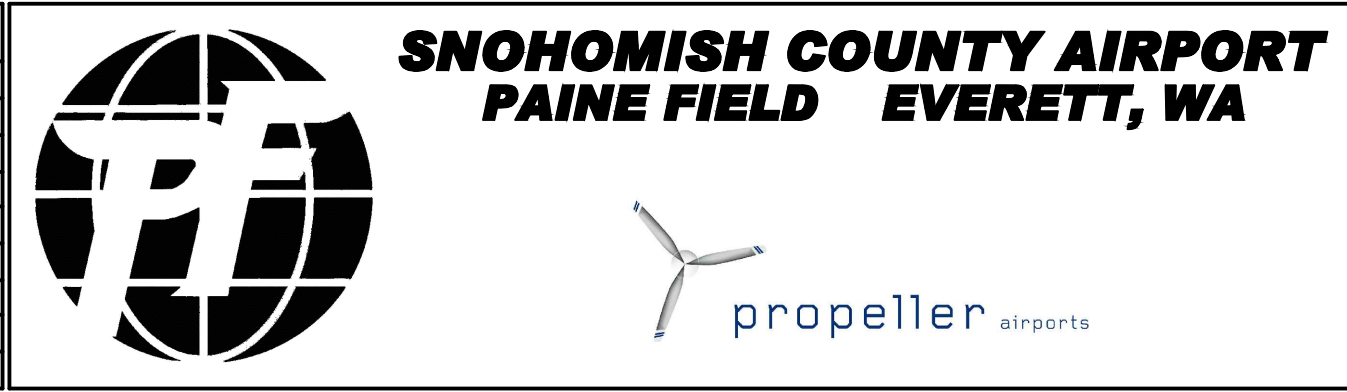
DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL	
SHEET TITLE: STORM WATER OIL COLLECTION CELL	
SCALE: AS SHOWN	DATE: NOVEMBER 29, 2016

PFN NO.: 16-109244 LDA
FAA AIP NO.:
SHEET NO.: <b>C6.12</b>



- 1
- NOTES
- THE FOLLOWING REQUIREMENTS SHALL APPLY TO THE INSTALLATION OR REPLACEMENT OF ANY REQUIRED HYDRANT:
1.

HYDRANTS SHALL BE INSTALLED, TESTED AND CHARGED PRIOR TO THE START OF CONSTRUCTION, UNLESS OTHERWISE APPROVED BY THE FIRE MARSHAL.
2.

ALL ELEMENTS OF FIRE HYDRANT INSTALLATION INCLUDING WATER MAINS, PIPES, VALVES, AND RELATED COMPONENTS SHALL CONFORM TO THE FIRE CODE, NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD 24 2007 EDITION, AND AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARD C502.94.
3.

FIVE (5) INCH STORZ-TYPE STEAMER PORT FITTINGS SHALL BE PROVIDED ON NEW HYDRANTS.
4.

HYDRANTS SHALL STAND PLUMB AND BE SET TO THE FINISHED GRADE. THERE SHALL BE A 36 INCH RADIUS OF CLEAR AREA ABOUT THE HYDRANT FOR THE OPERATION OF A HYDRANT WRENCH ON THE OUTLETS AND THE CONTROL VALVE. THE PUMPER PORT SHALL FACE THE STREET, OR WHERE THE STREET CANNOT BE CLEARLY IDENTIFIED, THE PORT SHALL FACE THE MOST LIKELY ROUTE OF APPROACH OF THE FIRE APPARATUS WHILE PUMPING. THE HYDRANT SHALL BE INSTALLED WITHIN 15 FEET OF THE STREET OR ACCESS ROADWAY OR WHERE APPROVED BY THE FIRE MARSHAL.
5.

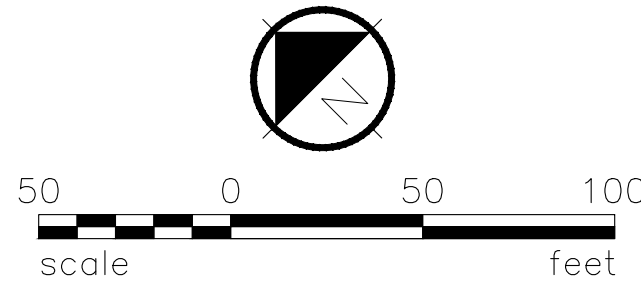
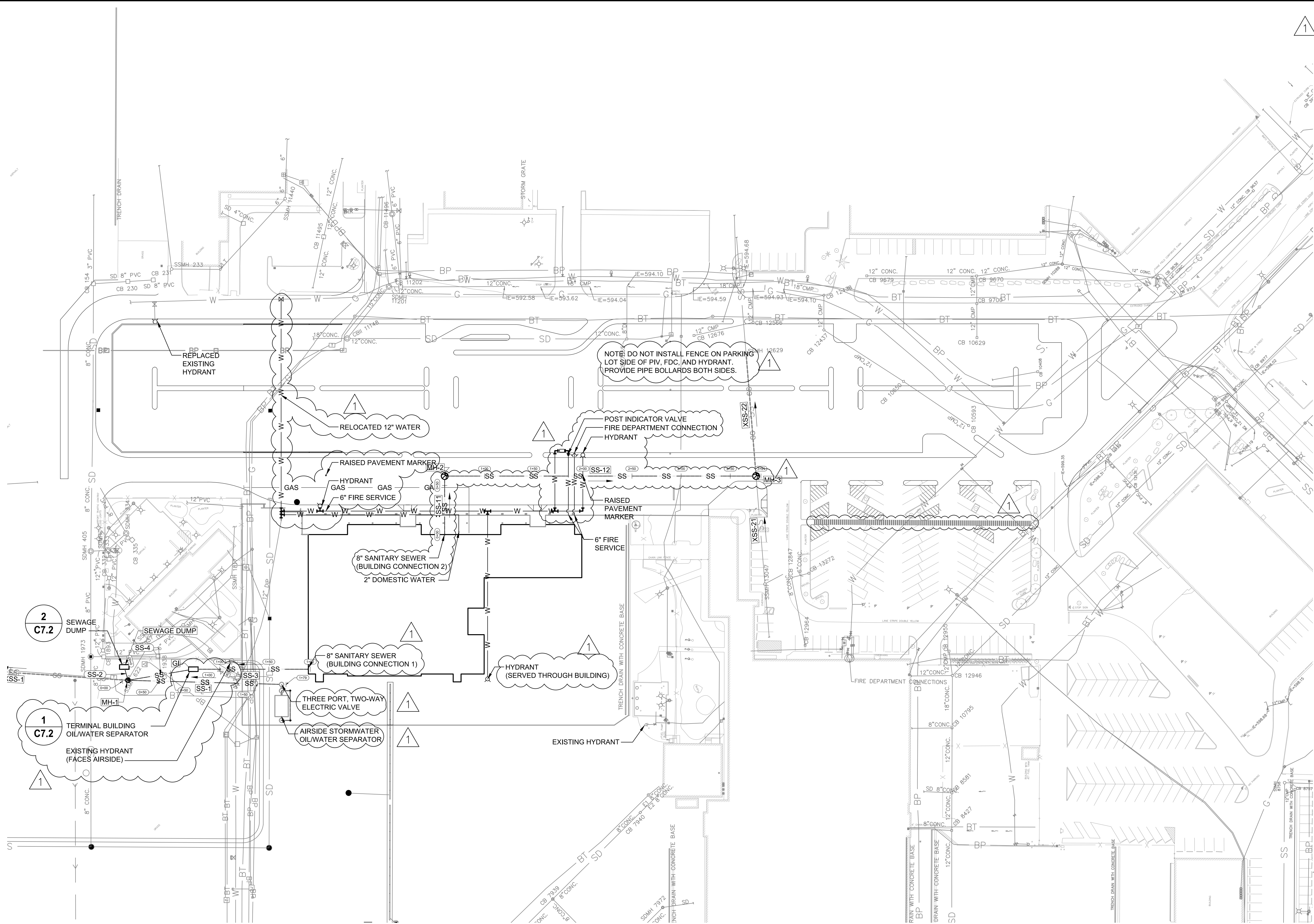
HYDRANTS SHALL NOT BE OBSTRUCTED BY STRUCTURES, FENCES, THE PARKING OF VEHICLES, OR VEGETATION. HYDRANT VISIBILITY SHALL NOT BE IMPAIRED WITHIN A DISTANCE OF 75 FEET IN ANY DIRECTION OF VEHICULAR APPROACH.
6.

THE TOP(S) OF THE HYDRANT(S) SHALL BE COLORED CODED TO DESIGNATE THE LEVEL OF SERVICE BEING PROVIDED BY THAT HYDRANT. FOR THIS APPLICATION IT HAS BEEN DETERMINED THAT THE TOP(S) OF THE HYDRANT(S) SHALL BE PAINTED BLUE. BODIES OF THE HYDRANT(S) SHALL BE PAINTED YELLOW.
7.

FOR ALL NEW HYDRANT INSTALLATIONS, EITHER PUBLIC OR PRIVATE, THE DEVELOPER SHALL INSTALL BLUE STREET REFLECTORS TO INDICATE HYDRANT LOCATIONS. INSTALLATION OF BLUE STREET REFLECTORS SHALL BE COMPLETED PRIOR TO FINAL APPROVAL OF ANY DEVELOPMENT OR NEW CONSTRUCTIONS AND SHALL BE LOCATED HYDRANT SIDE OF CENTER LINE ON THE DRIVING SURFACE. BLUE STREET REFLECTORS SHALL NOT BE REQUIRED NOR ALLOWED ON THE AIRSIDE OF THE TERMINAL.
8.

VEHICLES SHALL NOT BE PARKED WITHIN 15 FEET OF A FIRE HYDRANT, OR FIRE DEPARTMENT CONNECTION, OR A FIRE PROTECTION SYSTEM CONTROL VALVE.
9.

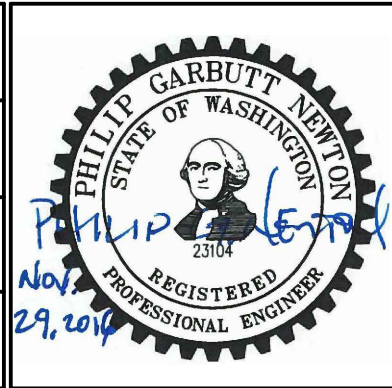
COORDINATE ALL ELEMENTS OF FIRE PROTECTION SYSTEM WITH MUKILTEO FIRE DEPARTMENT, PAINE FIELD FIRE DEPARTMENT, AND SNOHOMISH COUNTY FIRE DEPARTMENT.



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

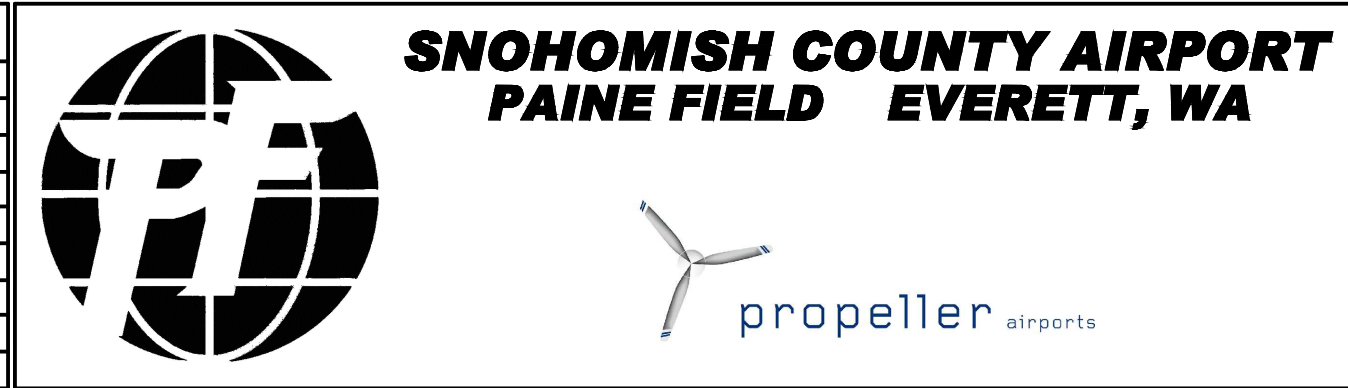
DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL

SHEET TITLE: WATER, SEWER, GAS PLAN

SCALE: AS SHOWN      DATE: NOVEMBER 29, 2016

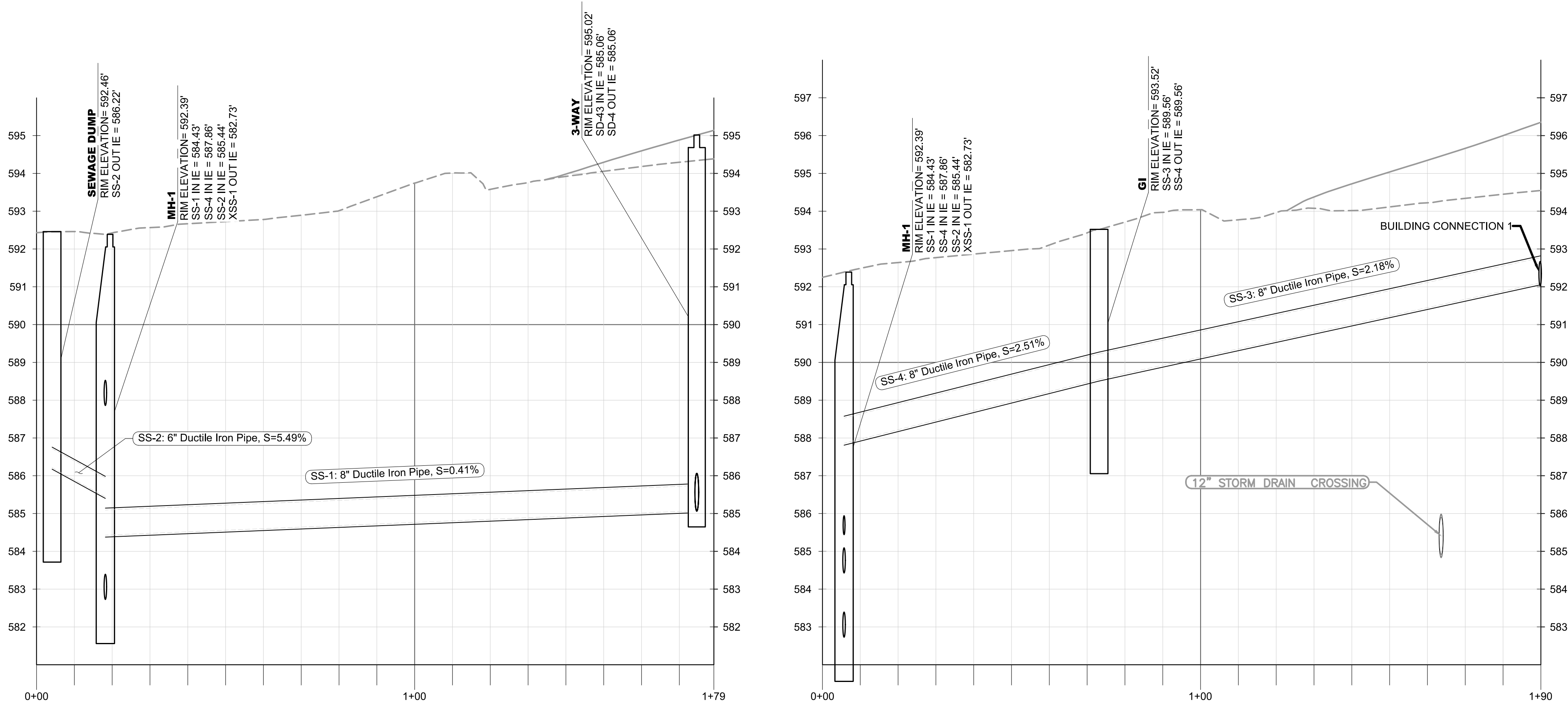
PFN NO.: 16-109244 LDA

FAA AIP NO.: \_\_\_\_\_

SHEET NO.: **C7.0**

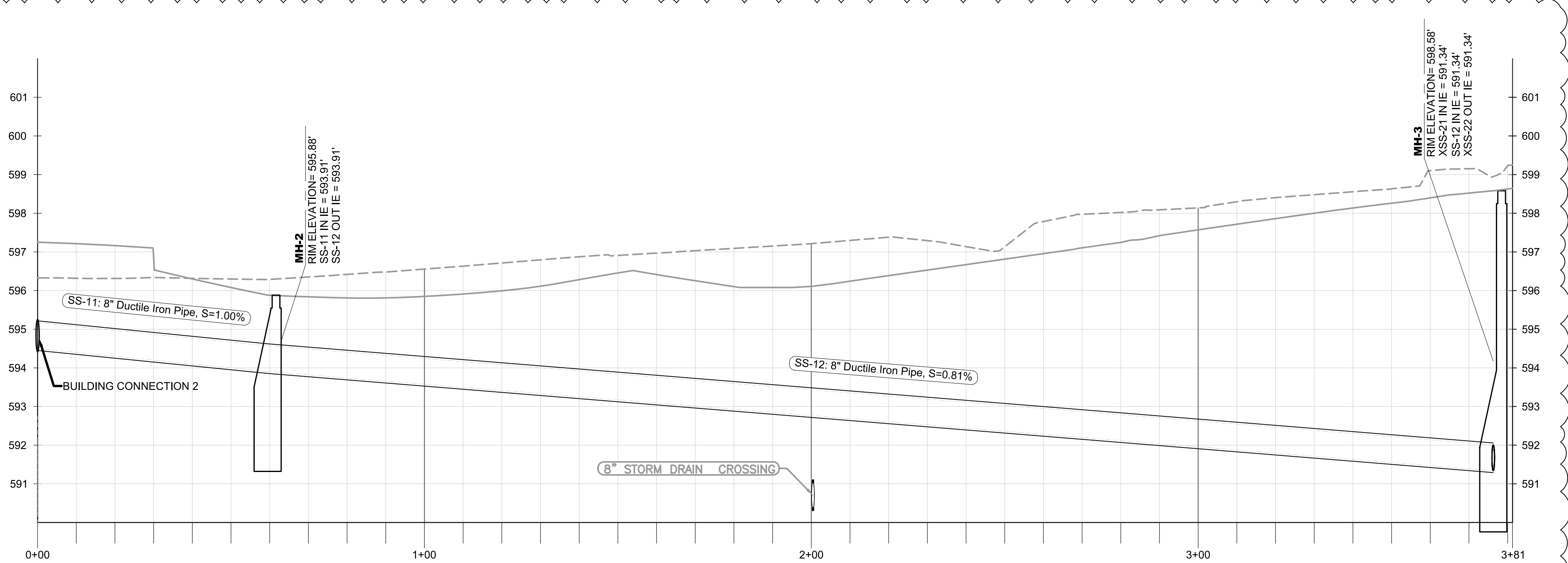
LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL





SANITARY SEWER 1 PROFILE

SANITARY SEWER LATERAL PROFILE



SANITARY SEWER 2 PROFILE

NODE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	STRUCTURE DETAILS	INVERT ELEVATIONS	LOCATION
CONN-1	BUILDING CONNECTION 1	RIM = 592.67'	I.E. = 592.10 OUT	N = 334773.68 E = 1285858.38
CONN-2	BUILDING CONNECTION 2	RIM = 595.26'	I.E. = 594.50 OUT	N = 334772.19 E = 1286053.56

STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE TYPE	STRUCTURE DETAILS	INVERT ELEVATIONS	LOCATION
GI	GREASE INTERCEPTOR	RIM = 593.52' HEIGHT, H = 5.96'	I.E. = 589.56 IN I.E. = 589.56 OUT	N = 334856.16 E = 1285775.91
MH-1	ECCENTRIC CYLINDRICAL STRUCTURE VERTICAL PIPE CLEARANCE 24 INCH	RIM = 592.39' HEIGHT, H = 10.33'	I.E. = 584.43 IN I.E. = 587.86 IN I.E. = 585.44 IN I.E. = 582.73 OUT	N = 334895.17 E = 1285720.88
MH-2	ECCENTRIC CYLINDRICAL 2-TIER CIRCULAR FRAME	RIM = 595.88' HEIGHT, H = 3.98'	I.E. = 593.91 IN I.E. = 593.91 OUT	N = 334814.24 E = 1286095.61
MH-3	ECCENTRIC CYLINDRICAL 2-TIER CIRCULAR FRAME	RIM = 598.58' HEIGHT, H = 8.24'	I.E. = 591.34 IN I.E. = 591.34 IN I.E. = 591.34 OUT	N = 334590.22 E = 1286319.62
SEWAGE DUMP	RECTANGULAR JUNCTION STRUCTURE NF	RIM = 592.46' HEIGHT, H = 8.24'	I.E. = 586.22 OUT	N = 334907.41 E = 1285727.86

PIPE TABLE					
PIPE	SIZE	LENGTH	SLOPE	START IE	END IE
SS-1	8"	153.9	0.41%	585.06	584.43
SS-2	6"	14.1	5.49%	586.22	585.44
SS-3	8"	116.6	2.18%	592.10	589.56
SS-4	8"	67.4	2.51%	587.86	589.56
SS-11	8"	59.5	1.00%	594.50	593.91
SS-12	8"	316.8	0.81%	593.91	591.34
XSS-1	8"	232.6	0.31%	582.73	582.00
XSS-21	8"	110.3	0.88%	592.31	591.34
XSS-22	8"	125.4	0.88%	591.34	590.24

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.

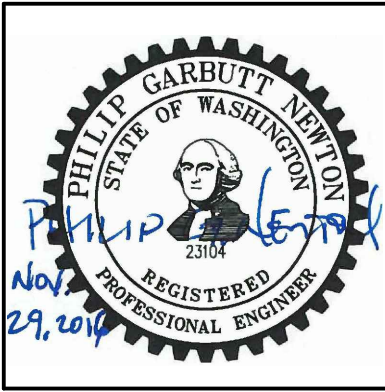
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO

DRAWN: AC  
JS

CHECKED: CT

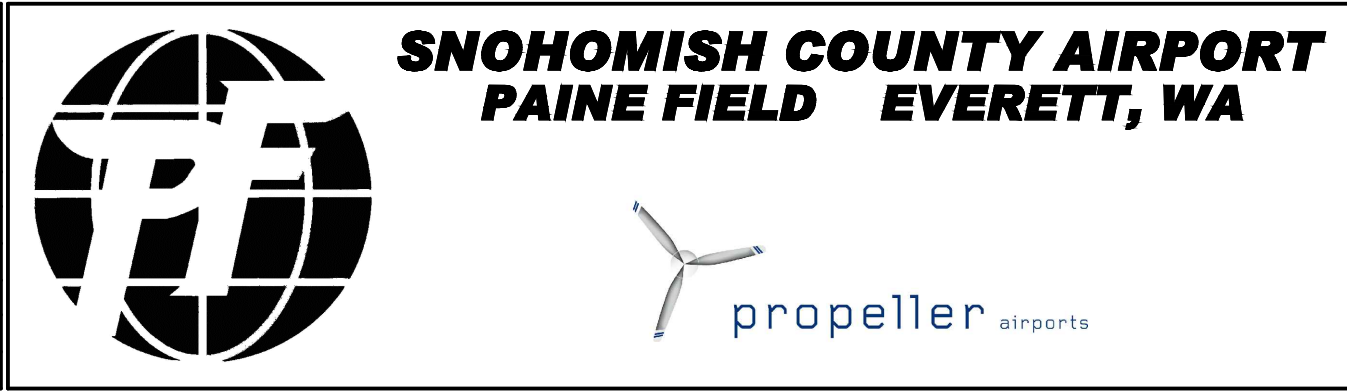
APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL

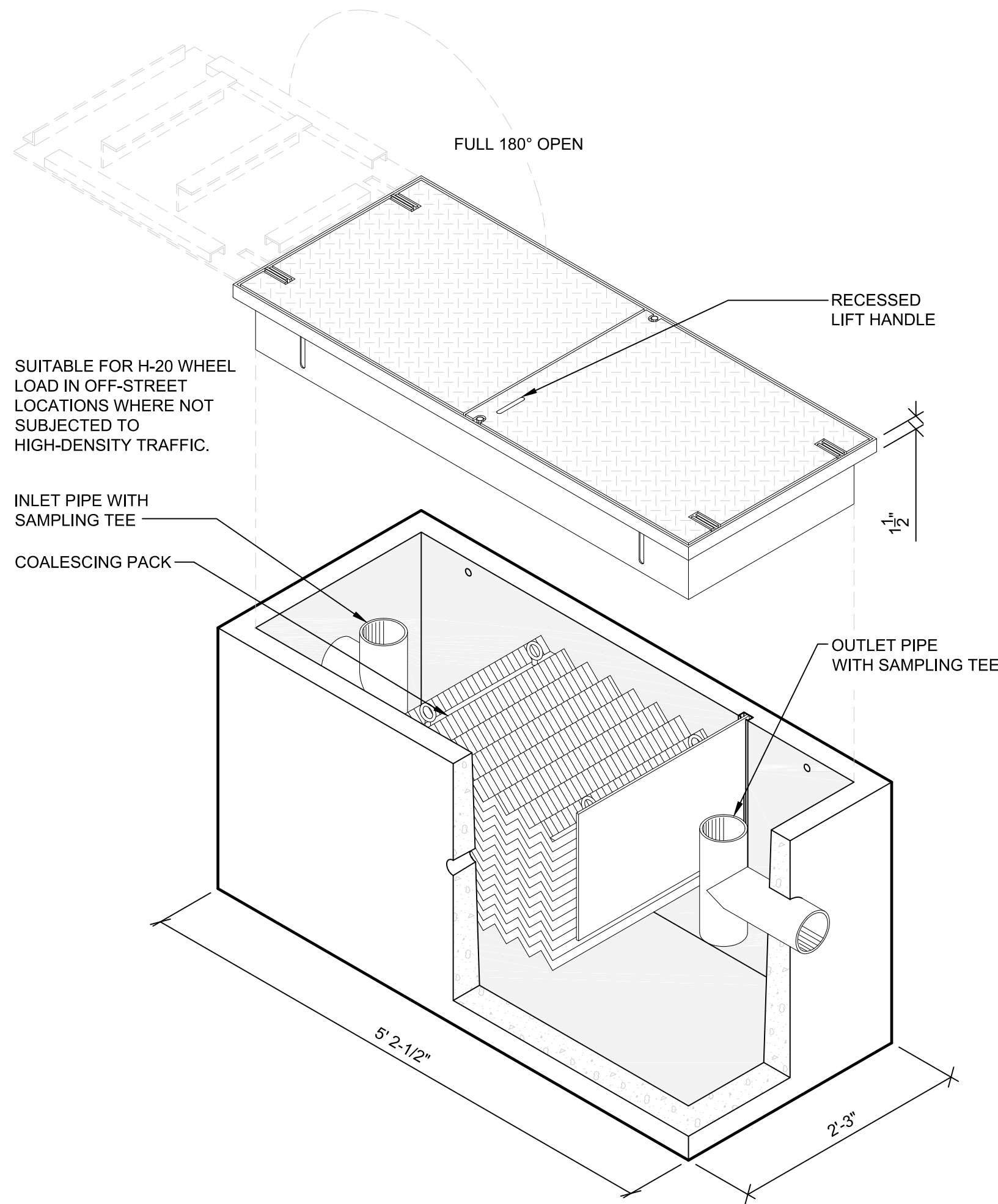
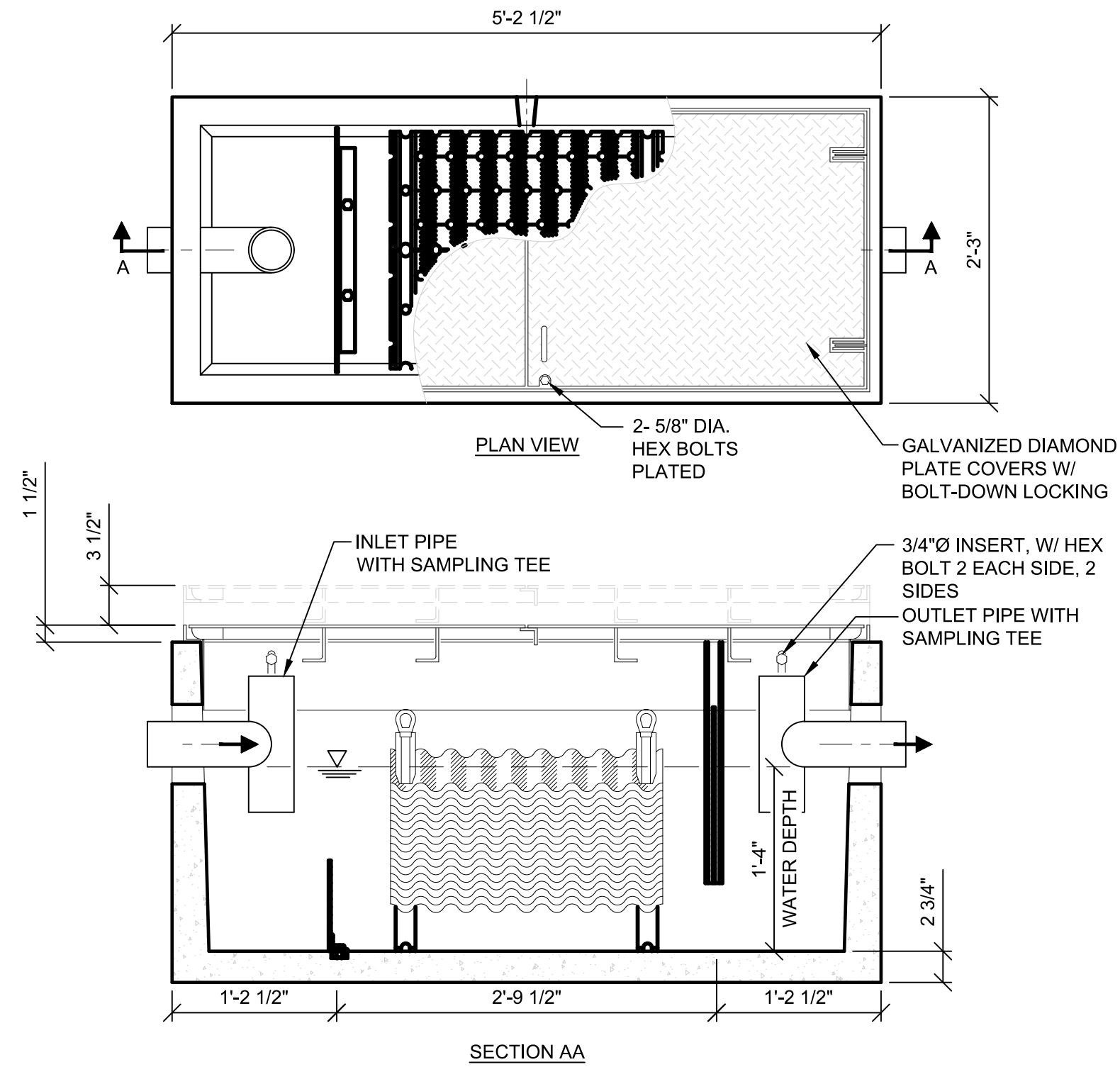


PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL	
SHEET TITLE: SANITARY SEWER PROFILES	
SCALE: AS SHOWN	DATE: NOVEMBER 29, 2016

PFN NO.: 16-109244 LDA
FAA AIP NO.:
SHEET NO.: <b>C7.1</b>

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL





- STRUCTURAL NOTES:

  1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH F'C= 7000 PSI
  2. REBAR: ASTM A-615 GRADE 60
  3. MESH: ASTM A-185 GRADE 65
  4. DESIGN: ACI-318-05 BUILDING CODE
  - 4.1. ASTM C-890 "MINIMUM STRUCTURAL DESIGN
  - 4.2. LOADING FOR UNDERGROUND PRECAST CONCRETE
  - 4.3. WATER AND WASTEWATER STRUCTURES"
  5. LOADS: HS-20 TRUCK WHEEL W/ 30% IMPACT PER AASHTO

GENERAL NOTES:

  1. ALL BAFFLES AND WEIRS TO BE 3/16" STEEL PLATE
  2. STATIC WATER DEPTH = 1'-4"
  3. CONTRACTOR TO:
  - 3.1. SUPPLY AND INSTALL ALL PIPING & SAMPLING TEES
  - 3.2. GROUT IN ALL PIPES
  - 3.3. FILL WITH CLEAN WATER PRIOR TO "START-UP" OF SYSTEM
  - 3.4. VERIFY ALL BLOCKOUT SIZES AND LOCATIONS
- TOP OF SEPARATOR ELEVATION: 593.6"

INLET PIPE SIZE: 3"

INLET PIPE ELEVATION: \_\_\_\_\_

OUTLET PIPE SIZE: 3"

OUTLET PIPE ELEVATION: \_\_\_\_\_

BASIC DESIGN INFORMATION:

INFLUENT CHARACTERISTICS:

OIL SPECIFIC GRAVITY: 0.88

OPERATING TEMPERATURE: 50°

INFLUENT OIL CONCENTRATION: 100 PPM

MEAN OIL DROPLET SIZE: 130 MICRONS

0.033 FT/MIN OIL RISE RATE

DESIGNED PER WASHINGTON STATE

DEPARTMENT OF ECOLOGY

FLOW RATE	EFFLUENT QUALITY	100% COLLECTED SIZE
20 GPM	10 PPM	60 MICRON

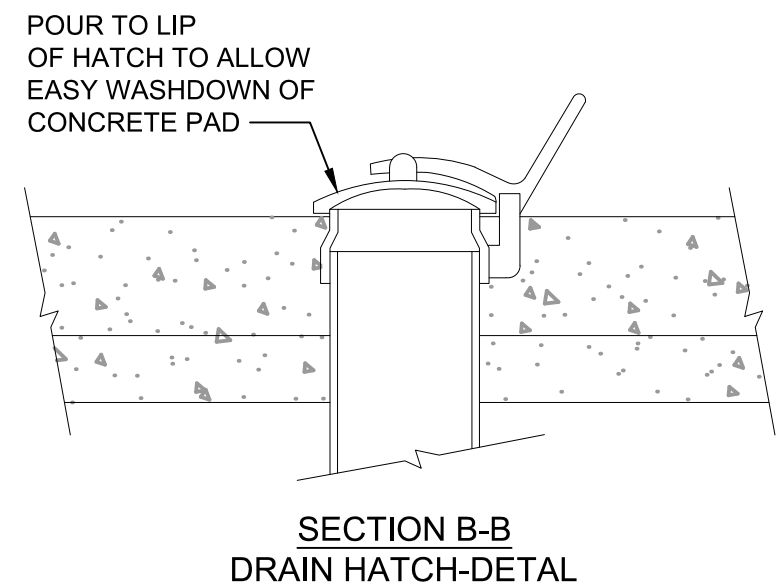
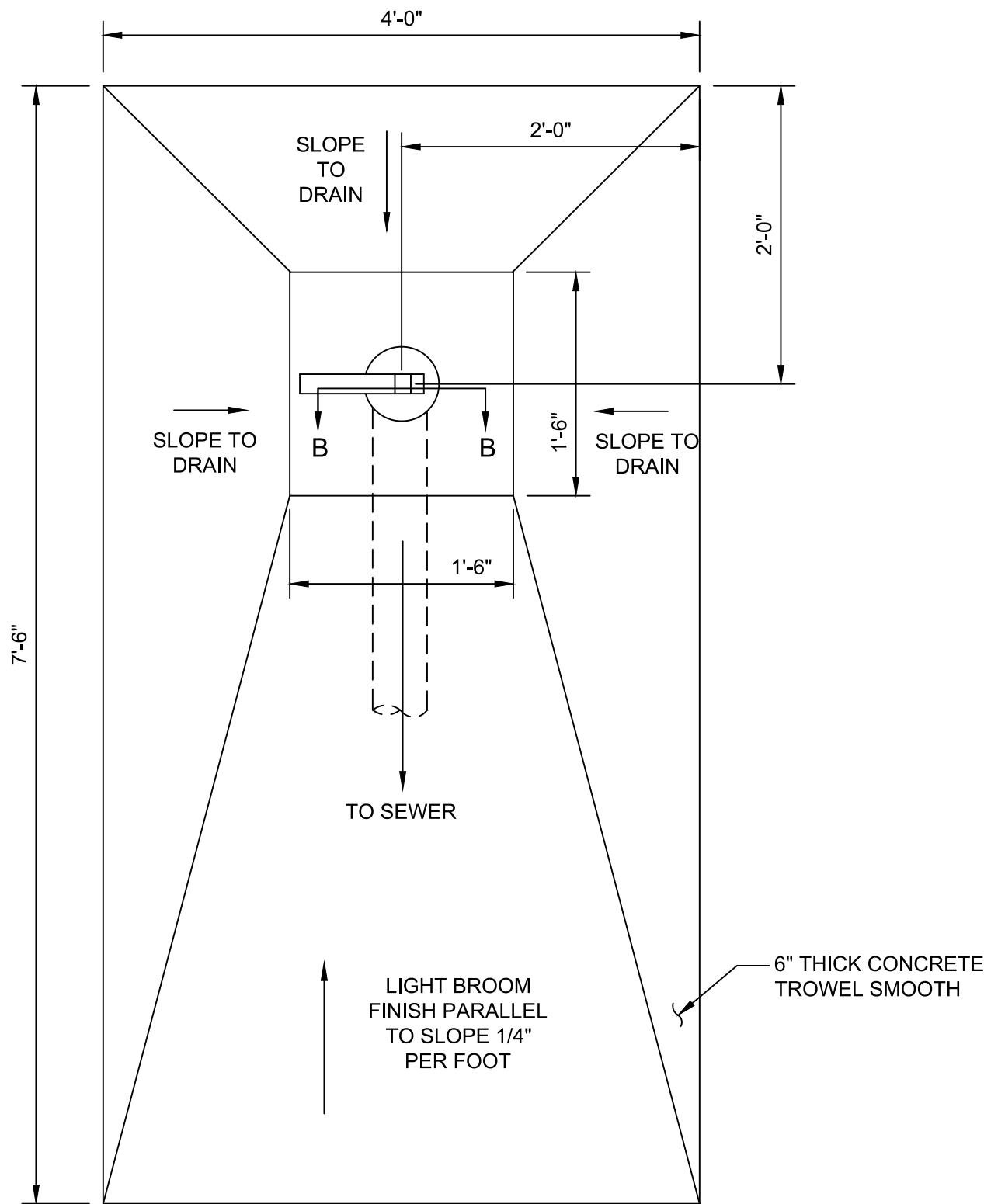
1

TERMINAL BUILDING  
OIL/WATER SEPARATOR DETAIL

SCALE: NONE

1

C7.0



NOTE:  
WASTEWATER DUMP HATCH SHALL BE 4-INCH FEMALE PIPE THREAD HATCH COVER WITH BRONZE CAP AND SINGLE LEVER FOOT PEDAL WITH NON-SLIP THREADS. THE BASE SHALL BE CAST IRON DESIGNED AS SELF-ACTING ANCHOR LUG. PROVIDE A FLAT FACE SEAT BETWEEN CAP AND BASE FOR POSITIVE CLOSE, FLY TIGHT SEAL. THE HATCH SHALL BE LOCKABLE AND SELF-CLOSING. DESIGN SHALL ALLOW FOR FLUSH OR RAISED INSTALLATION.

SEWAGE DUMP  
SCALE: NONE

2  
C7.0

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.

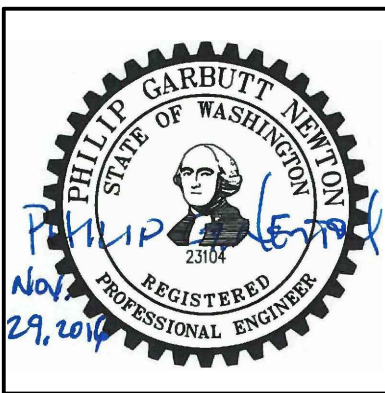
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO

DRAWN: AC  
JS

CHECKED: CT

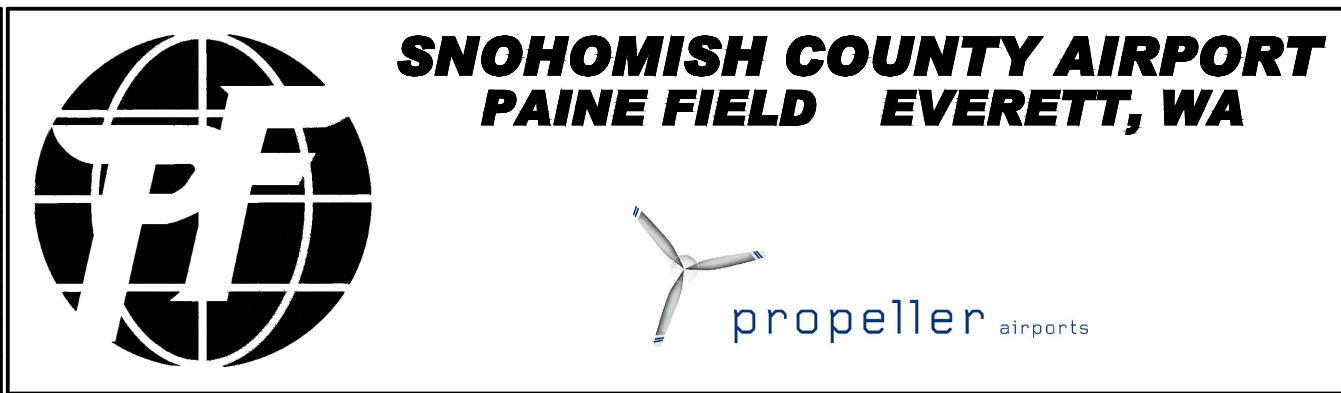
APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL

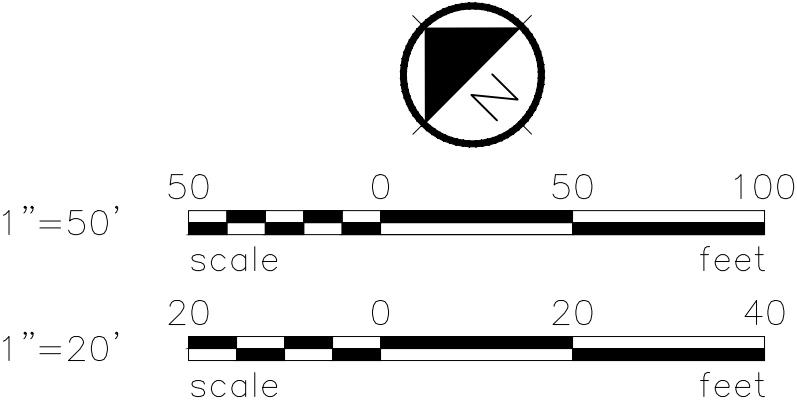
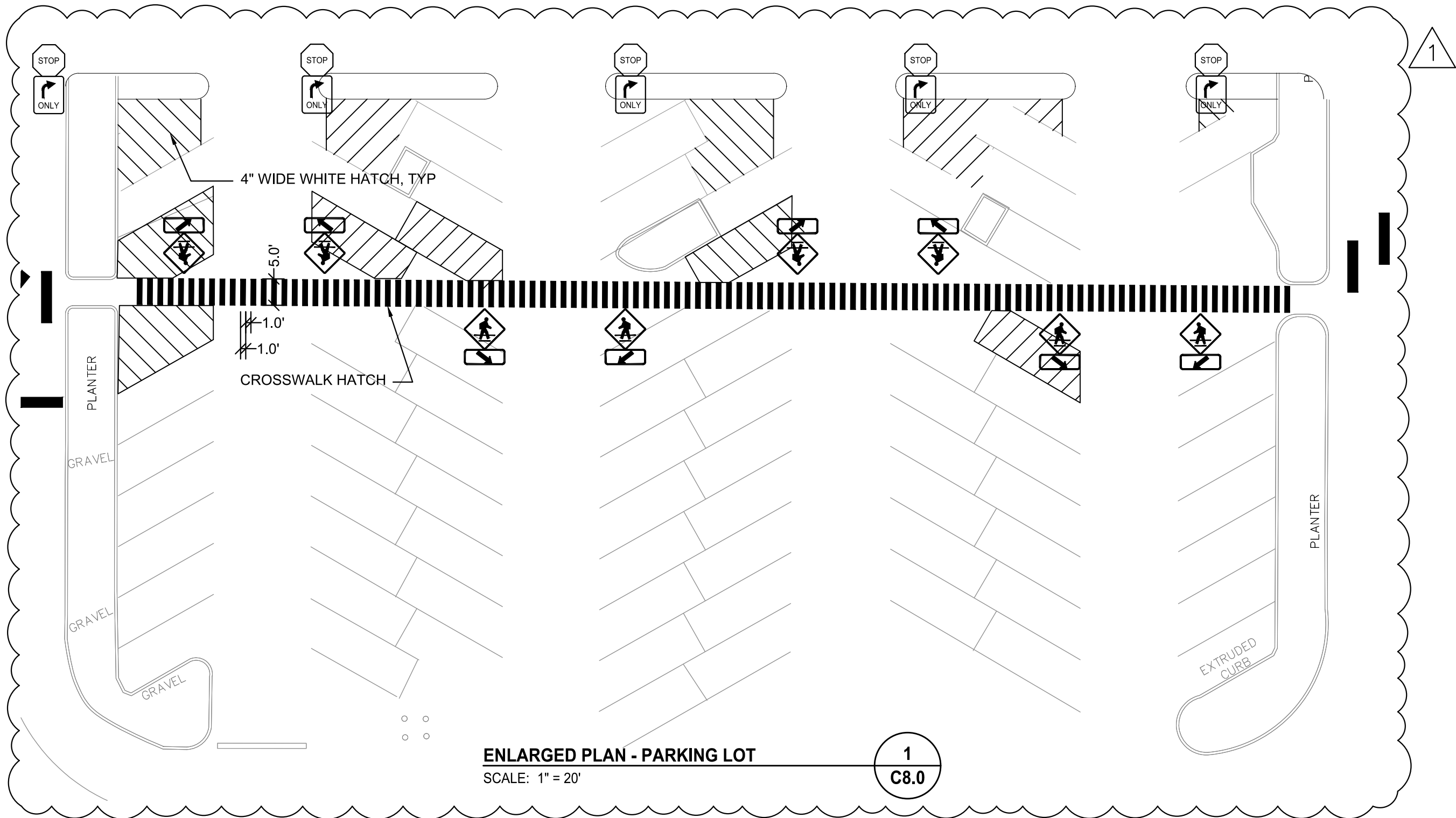
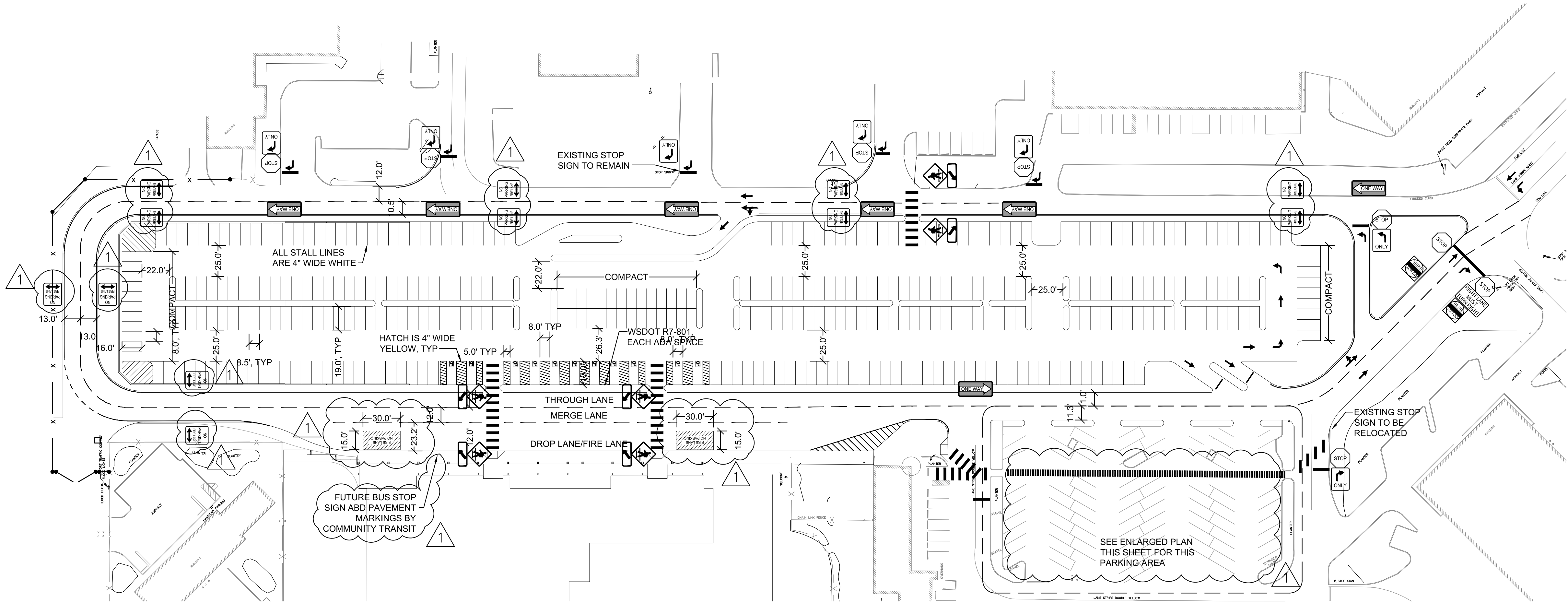


PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL	PFN NO.: 16-109244 LDA
SHEET TITLE: SEWER DETAILS	FAA AIP NO.:
SCALE: AS SHOWN	SHEET NO.: C7.2
DATE: NOVEMBER 29, 2016	



NOTES

1. THIS SHEET SHOWS TRAFFIC MARKING AND SIGNAGE ONLY, AND DOES NOT INCLUDE INFORMATIONAL SIGNAGE, SECURITY SIGNAGE, WAYFINDING, OR BRANDING.



Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.

R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO

DRAWN: AC  
JS

CHECKED: CT

APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

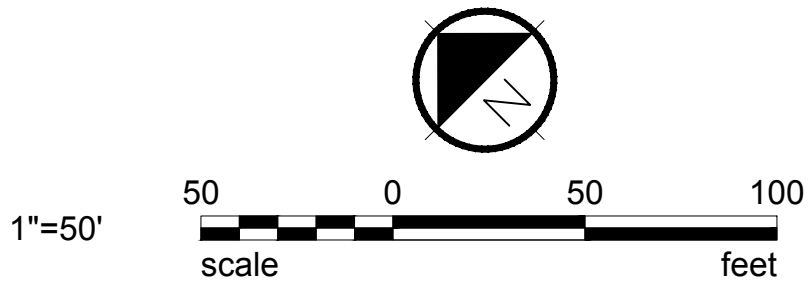
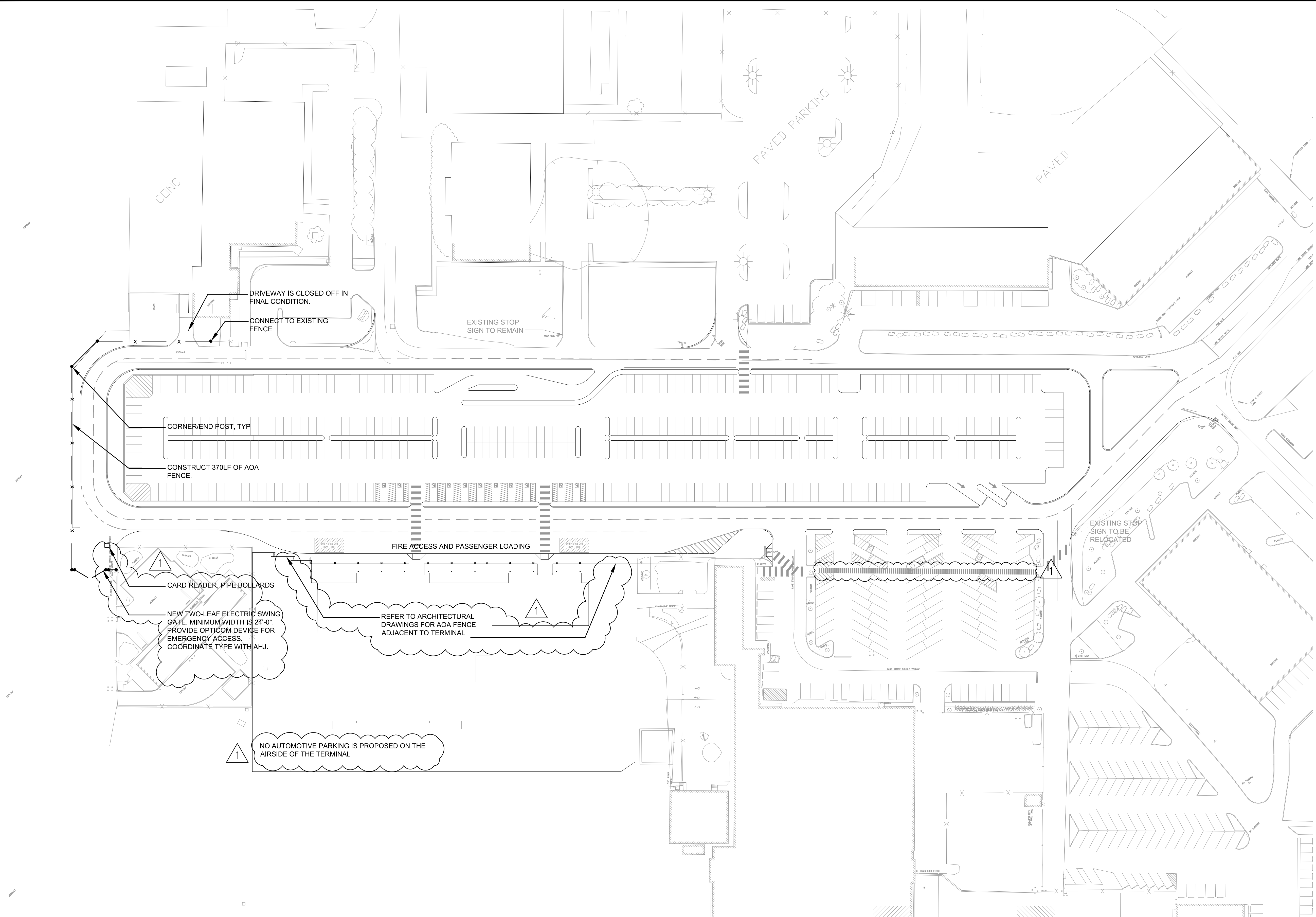
propeller airports

PROJECT TITLE:	PAINE FIELD PASSENGER TERMINAL	
SHEET TITLE:	PAVEMENT MARKING PLAN	
SCALE:	AS SHOWN	DATE: NOVEMBER 29, 2016

PFN NO:	16-109244 LDA
FAA AIP NO.:	
SHEET NO.:	C8.0



FILE NAME: C:\Box Sync\PAE Passenger Terminal Project\01 CAD\02 Sheets\C9.0 FENCE AND EMERGENCY ACCESS PLAN.dwg PLOTTED: Wednesday, November 30, 2016 - 2:52pm USER: jason.zhou1

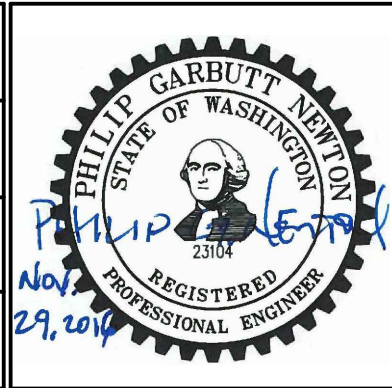


Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_  
RANDOLPH R. SLEIGHT, P.E., P.L.S.

R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services

1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL

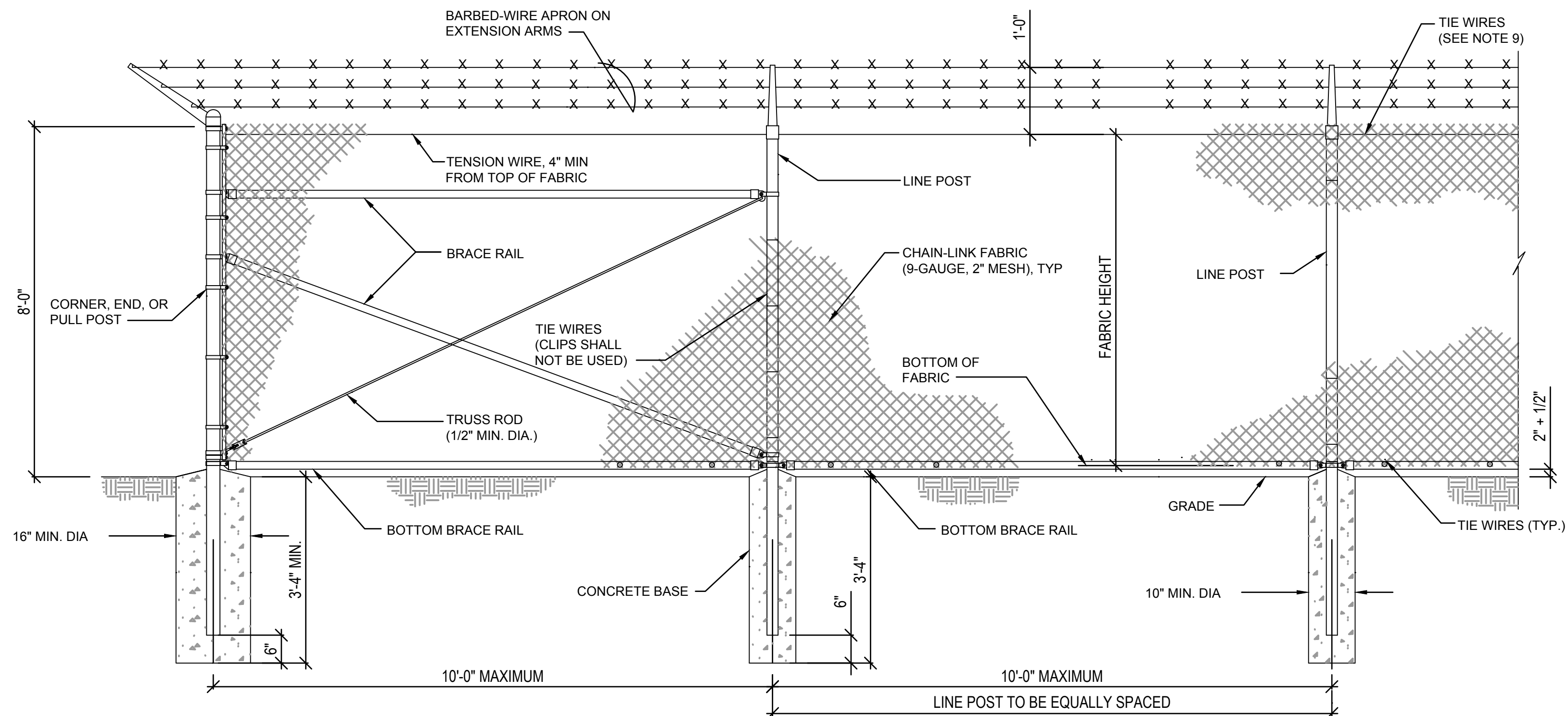


PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL	
SHEET TITLE: FENCE AND EMERGENCY ACCESS PLAN	
SCALE: AS SHOWN	DATE: NOVEMBER 29, 2016

PFN NO.: 16-109244 LDA
FAA AIP NO.:
SHEET NO.: <b>C9.0</b>

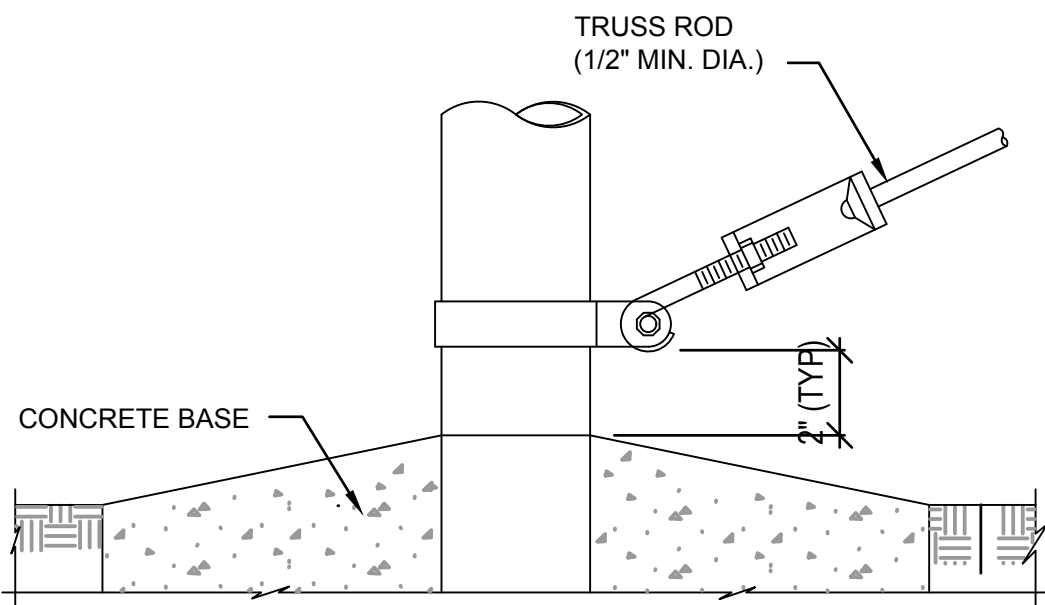
LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL





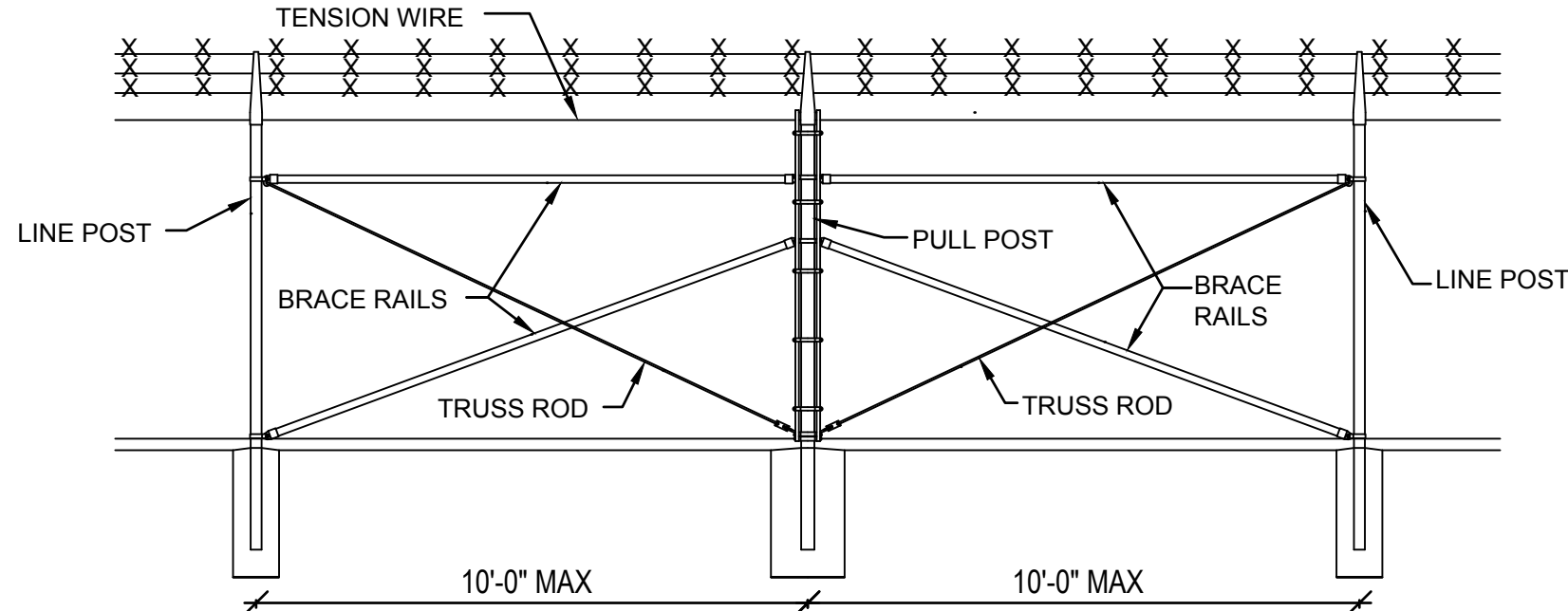
AOA SECURITY FENCE DETAIL  
SCALE: NONE

1  
C9.1



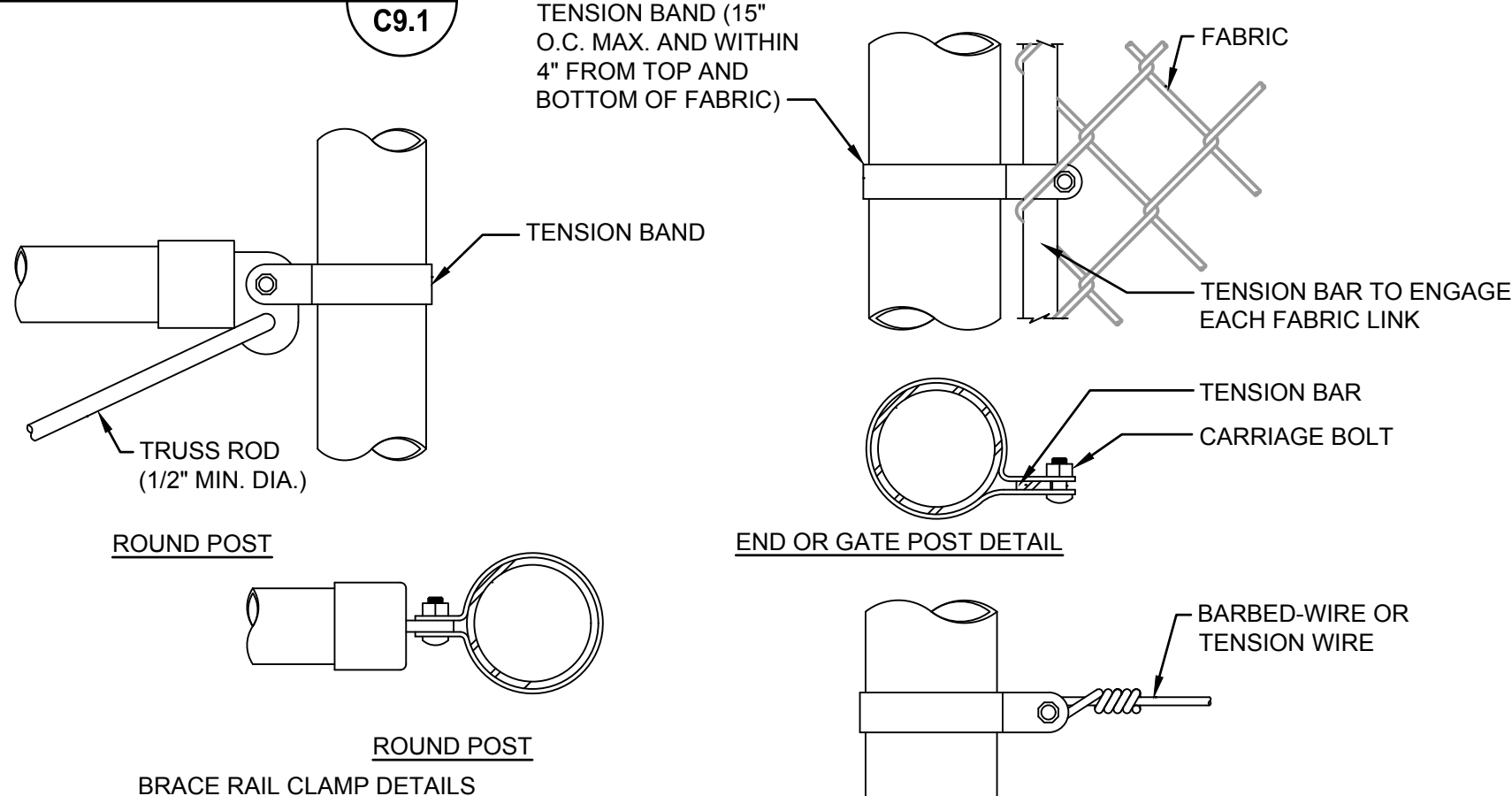
TRUSS ROD AND BAND  
SCALE: NONE

4  
C9.1



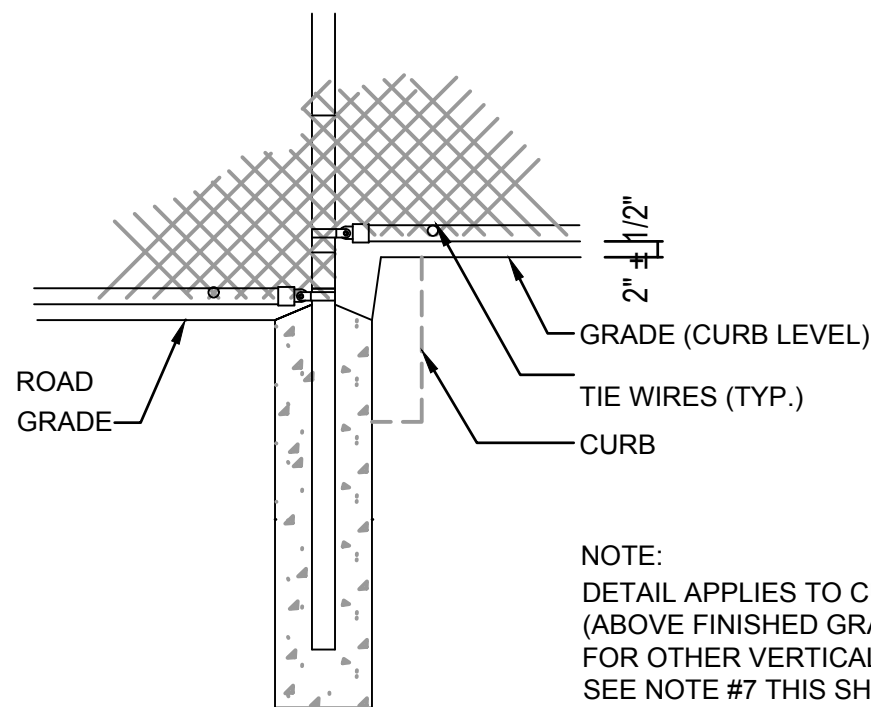
BRACE PANEL DETAIL  
SCALE: NONE

7  
C9.1



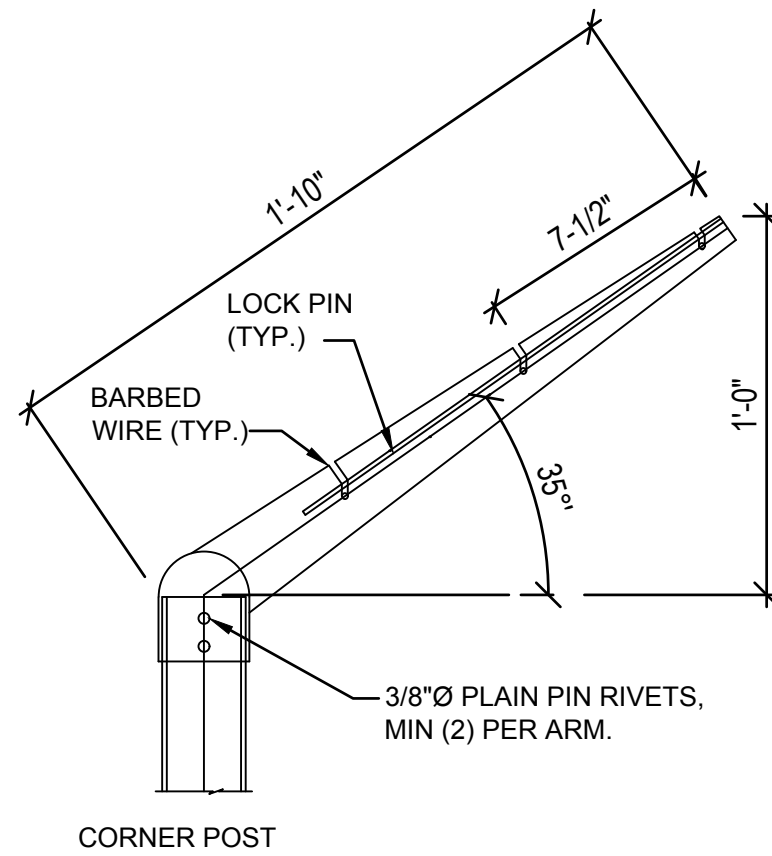
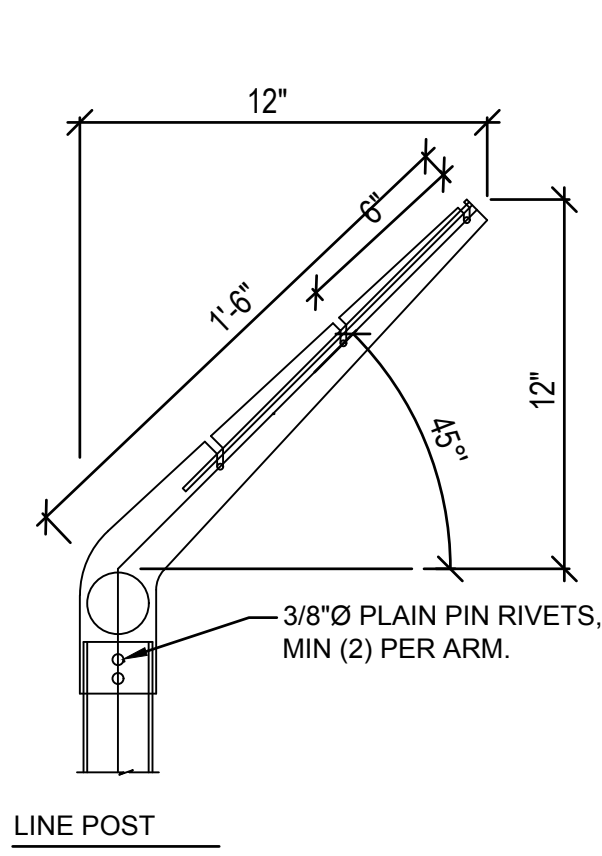
FASTENING DETAILS  
SCALE: NONE

5  
C9.1



FENCE POST DETAIL AT CURB  
SCALE: NONE

8  
C9.1

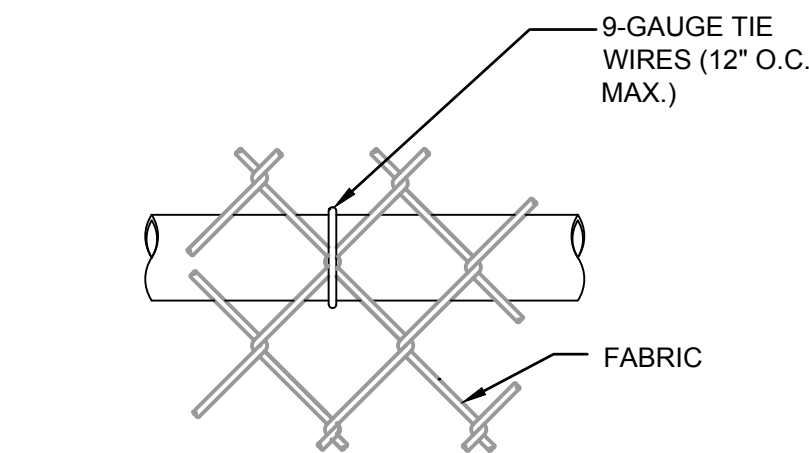


EXTENSION ARM DETAILS  
SCALE: NONE

2  
C9.1

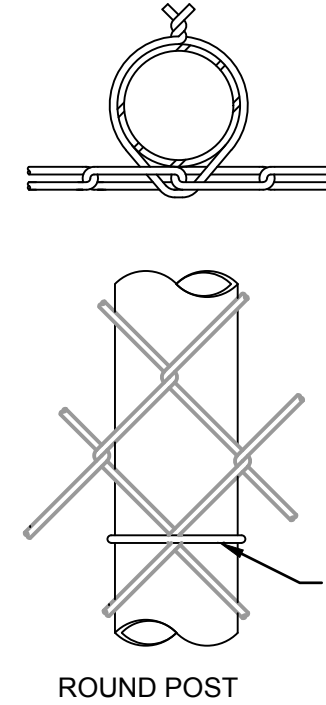
STEEL POST SCHEDULE FOR TYPE FE6 FENCE			
MINIMUM OUTSIDE DIMENSIONS (NOMINAL)			
	FABRIC LESS THAN 72"	FABRIC 72" TO 96"	FABRIC OVER 96"
CORNER, END & PULL POSTS TUBULAR - ROUND	2.375" O.D.	2.875" O.D.	4.00" O.D.
LINE POSTS TUBULAR - ROUND	1.90" O.D.	2.375" O.D.	2.875" O.D.
BOTTOM AND BRACE RAILS TUBULAR - ROUND		1.66" O.D.	

\* ALL POSTS AND RAILS SHALL BE TYPE SCHEDULE 40.  
\* SIZES TYPICAL UNLESS OTHERWISE NOTED



BRACE RAIL ATTACHMENT  
SCALE: NONE

3  
C9.1



LINE POST ATTACHMENTS  
SCALE: NONE

6  
C9.1

NOTES

- DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION.
- WIRE TIES, RAILS, POSTS AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE OPPOSITE SIDE OF THE SECURE AREA.
- UNLESS SPECIFICALLY SHOWN OR SPECIFIED, ALL FE6 FENCE SHALL HAVE AN APRON EXTENDED OUTWARD FROM THE AREA BEING PROTECTED.
- ALL BOLTS SHALL BE PEENED TO RESIST TAMPERING.
- TERMINAL (CORNER, GATE, AND PULL) POSTS SHALL BE SET AT ABRUPT CHANGES IN VERTICAL AND HORIZONTAL ALIGNMENT.
- FABRIC SHALL BE CONTINUOUS BETWEEN TERMINAL POSTS. RUNS BETWEEN TERMINAL POSTS SHALL NOT EXCEED 500'.
- WHERE FENCE ALIGNMENT INCLUDES TRANSITION FROM STRUCTURE TO GRADE, OR STRUCTURE TO STRUCTURE WHERE THERE IS A CHANGE IN ELEVATION, TOP OF FENCE SHALL MAKE THE TRANSITION AT A 45° ANGLE TO ENSURE FENCE HEIGHT IS MAINTAINED. TERMINAL POST SHALL BE SET AT LOWER POINT OF TRANSITION FLUSH WITH STRUCTURE.
- FOR FENCES OVER 6' TALL IN AREAS OF FREQUENT HIGH WINDS (70 MPH OR GREATER), FOUNDATION HOLE DIAMETERS SHALL BE 16" FOR TERMINAL POSTS AND 12" FOR LINE POSTS.
- TIE WIRES FOR ATTACHING FENCE FABRIC TO RAILS, BRACES, AND POSTS SHALL BE 9-GAUGE. TIE WIRE FOR ATTACHING TENSION WIRE TO FENCE FABRIC SHALL BE 16-GAUGE STAINLESS STEEL DOUBLE LOOP, 6.5" IN LENGTH, 12" O.C..

Snohomish County Planning & Development Services  
APPROVED FOR CONSTRUCTION

BY: RANDOLPH R. SLEIGHT, P.E., P.L.S.  
R/W PERMIT NO. \_\_\_\_\_

DESIGNED: PGN  
GF  
BO  
DRAWN: AC  
JS  
CHECKED: CT  
APPROVED: PGN



**AECOM**  
Airport Services  
1111 Third Avenue, Floor 16  
Seattle, Washington 98101  
TEL: (206) 438-2700  
FAX: (206) 438-2699

REVISION No.	REVISION DATE	DESCRIPTION
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL



**SNOHOMISH COUNTY AIRPORT**  
**PAINE FIELD EVERETT, WA**

propeller airports

PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL

SHEET TITLE: FENCE DETAILS

SCALE: AS SHOWN

DATE: NOVEMBER 29, 2016

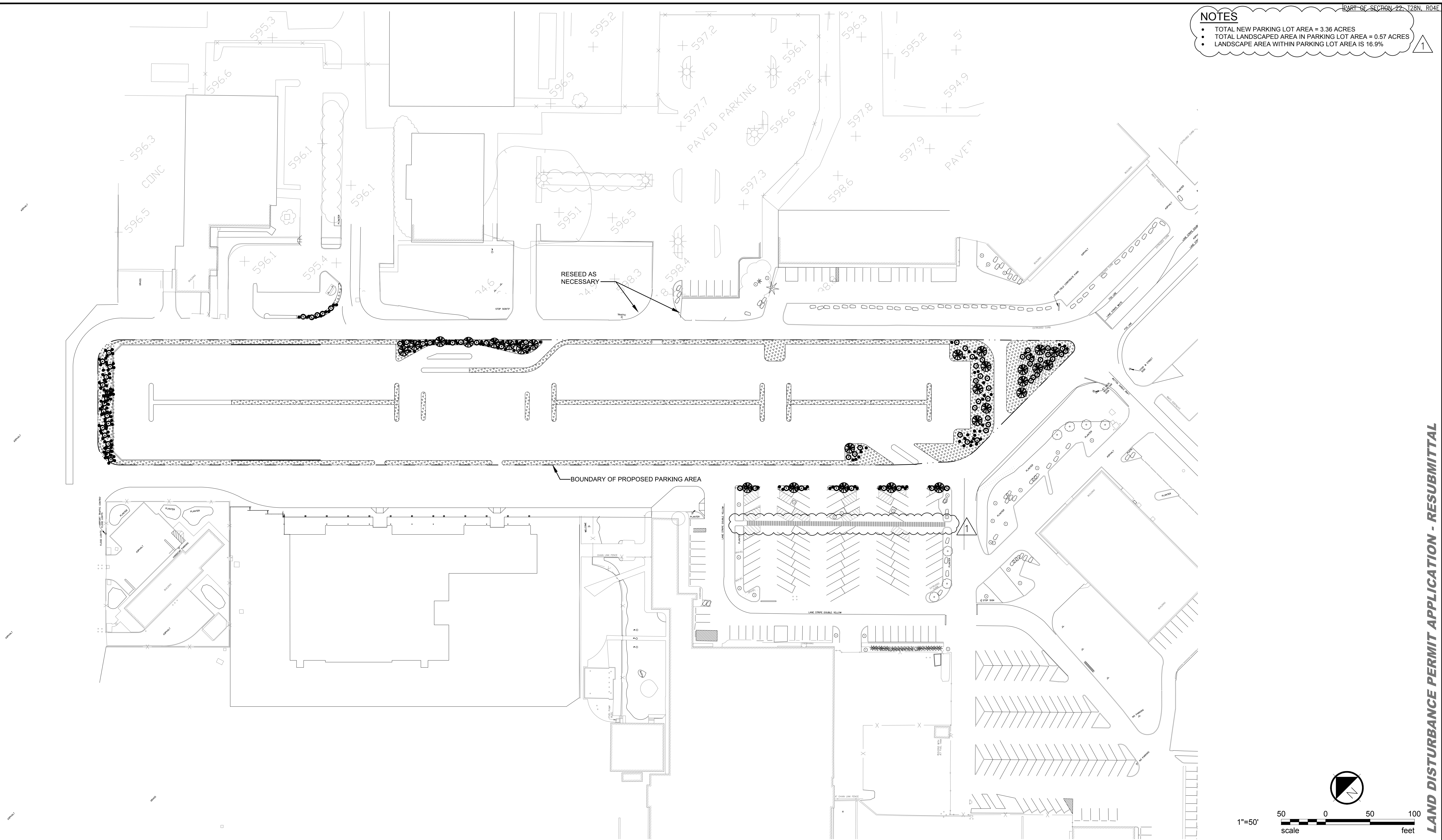
PFN NO.: 16-109244 LDA

FAA AIP NO.: \_\_\_\_\_

SHEET NO.: **C9.1**



FILE NAME: C:\Box Sync\PAE\_Passenger Terminal Project\01 CAD\02 Sheets\06.1 LANDSCAPING PLAN.dwg PLOTTED: Wednesday, November 30, 2016 - 2:52pm USER: jason.zhou1



<p>Snohomish County Planning &amp; Development Services APPROVED FOR CONSTRUCTION</p> <p>BY: RANDOLPH R. SLEIGHT, P.E., P.L.S. R/W PERMIT NO. _____</p>		<p>DESIGNED: PGN GF BO DRAWN: AC JS CHECKED: CT APPROVED: PGN</p>	<p><b>PHILIP GARBUETT NEWTON</b> STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 23004 NOV 29 2016</p>	<p><b>AECOM</b> Airport Services 1111 Third Avenue, Floor 16 Seattle, Washington 98101 TEL: (206) 438-2700 FAX: (206) 438-2699</p>	<table><tr><th>REVISION No.</th><th>REVISION DATE</th><th>DESCRIPTION</th></tr><tr><td>1</td><td>11/29/16</td><td>LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>	REVISION No.	REVISION DATE	DESCRIPTION	1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL																						<p><b>SNOHOMISH COUNTY AIRPORT</b> <b>PAINE FIELD EVERETT, WA</b></p> <p> propeller airports</p>	<p>PROJECT TITLE: PAINE FIELD PASSENGER TERMINAL</p> <p>SHEET TITLE: LANDSCAPING PLAN</p> <p>SCALE: AS SHOWN DATE: NOVEMBER 29, 2016</p>	<p>PFN NO.: 16-109244 LDA</p> <p>FAA AIP NO.:</p> <p>SHEET NO.: <b>C10.0</b></p>
REVISION No.	REVISION DATE	DESCRIPTION																																	
1	11/29/16	LAND DISTURBANCE PERMIT APPLICATION RESUBMITTAL																																	

LAND DISTURBANCE PERMIT APPLICATION - RESUBMITTAL