PORT OF PORT ARTHUR NAVIGATION DISTRICT

CONSTRUCTION OF

LOTS 6 & 7 LAYDOWN YARDS

PORT COMMISSIONERS

JOHN COMEAUX, PRESIDENT
RAYMOND C. JOHNSON, VICE PRESIDENT
LINDA TURNER SPEARS, SECRETARY/ TREASURER
NORRIS SIMON, JR. , COMMISSIONER
MARK UNDERHILL, COMMISSIONER

LARRY A. KELLEY, PORT DIRECTOR/CEO

PORT ARTHUR INTERNATIONAL PUBLIC PORT
PORT OF PORT ARTHUR NAVIGATION DISTRICT OF JEFFERSON COUNTY, TEXAS

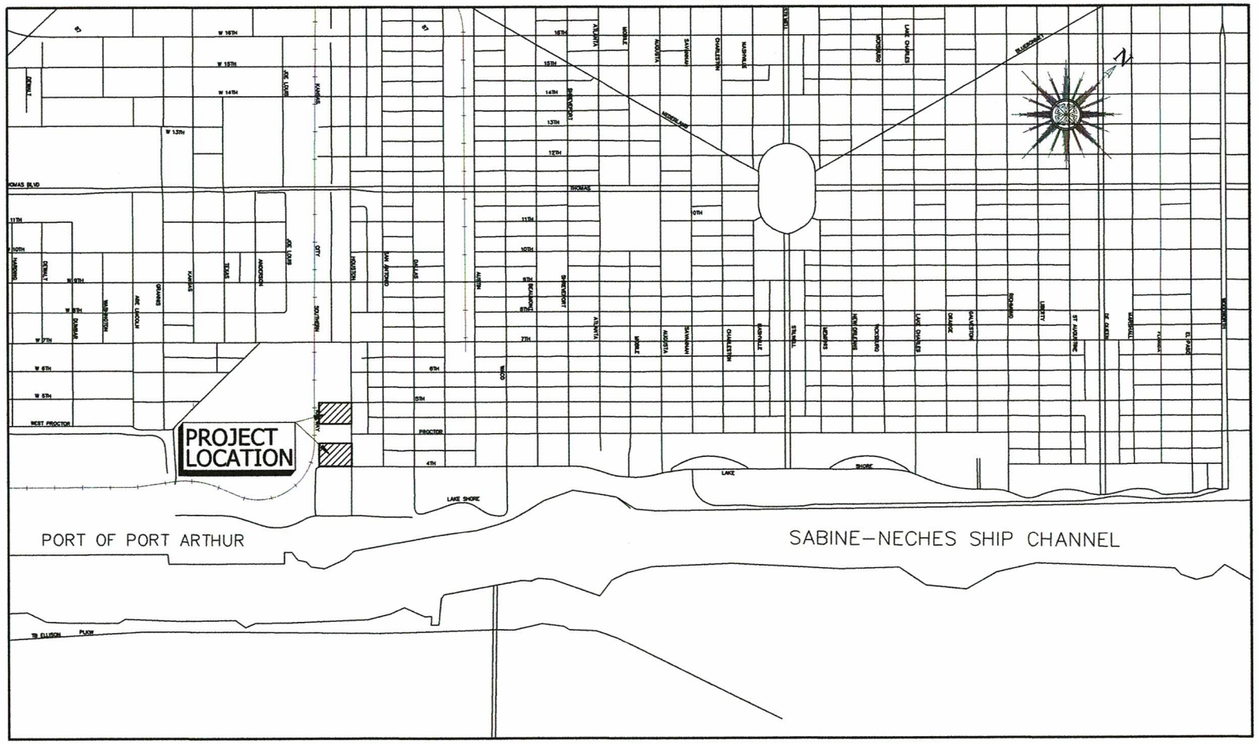
APPROVED

PORT OF PORT ARTHUR

BY: _____ 2/8/19
LARRY A. KELLEY
PORT DIRECTOR / CEO
DATE

BY: _____ 2/8/19
EDWARD A. LONG, JR, P.E. 83960
DIRECTOR OF ENGINEERING
DATE

PORT FILE 8.326-B
FEBRUARY 2019



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
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3	PAVING & GRADING PLAN
4	CITY OF PORT ARTHUR SIDEWALK & DRIVEWAY DETAILS
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8-10	SW3P DETAILS

STATE OF TEXAS
EDWARD A. LONG, JR.
83960
LICENSED PROFESSIONAL ENGINEER

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LOTS 6 & 7 LAYDOWN YARDS

COVER SHEET

SHEET 1 REV.#

GENERAL CONSTRUCTION NOTES

1. ALL ELEVATIONS SHOWN ARE NAVD88 DATUM.
2. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES.
3. SPOIL (EXCLUDING DEBRIS) FROM CONSTRUCTION SHALL BE SPREAD ON PORT PROPERTY LOCATED WEST OF THE SH 82 BRIDGE (MLK), LESS THAN 1.5 MILES FROM THE SITE, AND SPREAD IN A MANNER TO PREVENT PONDING FROM RAINFALL. CONTRACTOR MAY NEED TO INSTALL A SILT FENCE IF SEDIMENT FROM THE SPOIL AREA WILL FLOW INTO THE CHANNEL.
4. CONCRETE, ASPHALT AND OTHER DEBRIS FOUND DURING CONSTRUCTION SHALL BE DISPOSED OFFSITE BY CONTRACTOR AT NO ADDITIONAL PAY.
5. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE RESTORED TO AN EQUAL OR BETTER CONDITION AT THE EXPENSE OF THE CONTRACTOR.
6. THE PAVING AND GRADING PLAN (SHEET 3) SHOWS CONTOUR LINES OF THE EXISTING NATURAL GROUND PRIOR TO CLEARING AND GRUBBING. THE PROPOSED FINAL GRADES HAVE BEEN SHOWN WITH SOLID BREAK LINES (HIGH POINTS) AND SPOT ELEVATIONS.
7. ALL PROPOSED CONSTRUCTION WILL BE PERFORMED WITHIN THE BOUNDARY OF PORT OF PORT ARTHUR NAVIGATION DISTRICT PROPERTY OR PUBLIC ROW.
8. EXISTING UTILITIES AND OTHER OBSTRUCTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THE ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY FOR VARIATION IN LOCATION AND GRADES. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES. DISCREPANCIES BETWEEN THE TWO SHALL BE IMMEDIATELY REPORTED TO THE OWNER OR ENGINEER.
9. THE CONTRACTOR SHALL SCHEDULE WORK IN A MANNER THAT WILL CAUSE MINIMUM INTERFERENCE WITH TRAFFIC AND TO THE GENERAL PUBLIC. CONTRACTOR SHALL TAKE PROTECTIVE MEASURES TO PREVENT DUST FROM CONSTRUCTION MATERIALS BLOWING ONTO THE ADJACENT PROPERTIES, BUILDINGS AND TO THE GENERAL PUBLIC. CONTRACTOR MAY HAVE TO DELAY CERTAIN OPERATIONS DURING HIGH WIND CONDITIONS.
10. ALL MUD AND DEBRIS SHALL BE REMOVED FROM THE ROADWAYS AT THE END OF EACH WORKDAY AS A MINIMUM.
11. CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ALL BARRICADES, WARNING SIGNS, AND MARKINGS FOR HAZARDS NECESSARY TO PROTECT THE PUBLIC AND THE WORK SITE. WHEN USED DURING PERIODS OF DARKNESS, SUCH BARRICADES, WARNING SIGNS, AND HAZARD MARKINGS SHALL BE SUITABLY ILLUMINATED.
12. AT A MINIMUM, ONE COMPLETE SET OF CONSTRUCTION PLANS AND SPECIFICATIONS SHALL BE MAINTAINED ON-SITE AT ALL TIMES.
13. CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION IN AREA OF POSSIBLE UNDERGROUND UTILITIES WHICH MAY NOT BE SHOWN ON DRAWING.

THE DESIGN OF THIS PROJECT IS DEDICATED TO MATTHEW A. HAYES; A FUTURE CIVIL ENGINEER WHO LEFT US TOO SOON.

COMPANY	CONTACT	PHONE NUMBER
PORT OF PORT ARTHUR DIRECTOR OF SAFETY, SPECIAL PROJECTS AND EQUIPMENT	MIKE YOUNG	(409) 983-2029
JEFFERSON COUNTY DRAINAGE DISTRICT NO. 7	BRADY GIROUARD, RPLS	(409) 985-4369
TEXAS GAS SERVICE (IF NO ANSWER)	PATRICK SAM MICHAEL PEAVEY	(409) 460-9236 (409) 460-0531
ENTERGY	AL HARRINGTON	(409) 785-2346
AT&T (SWBT)	EDDIE COOK	(409) 839-6950
TIME WARNER COMMUNICATIONS (TCI)	HERCEL STRACENER	(409) 720-5501
CITY OF PORT ARTHUR ENGINEERING	ALBERTO ELEFANO	(409) 983-8296
CITY OF PORT ARTHUR SEWER WATER UTILITIES DIRECTOR	DONALD STANTON	(409) 983-8556
TEXAS ONE CALL SYSTEM	WWW.TEXAS811.ORG	DIAL 811

SITE STABILIZATION CONSTRUCTION NOTES

1. TOPSOIL SHALL BE STRIPPED TO A MINIMUM DEPTH OF 4" INCHES.
2. ALL SUBGRADE SHALL BE PROOFROLLED PRIOR TO FLY ASH STABILIZATION IN ACCORDANCE WITH TxDOT 2004 STANDARD SPECIFICATION ITEM 210. ANY SOFT AREAS FOUND SHALL BE EXCAVATED AND BACKFILLED WITH AN APPROVED FILL MATERIAL AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY.
3. FLY ASH STABILIZATION OF PAVEMENT SUBGRADE SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS GIVEN IN TxDOT 2004 STANDARD SPECIFICATIONS ITEM 265. AN APPLICATION RATE OF 6.0% OPF 70 BY DRY WEIGHT OF THE SOIL HAS BEEN ESTABLISHED. STABILIZED SOIL SHALL BE CONDITIONED TO AT LEAST OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY, AS DETERMINED BY THE SOILS TESTING LABORATORY. OPF 70 SHALL ONLY BE APPLIED TO AREAS WHERE MIXING AND COMPACTING OPERATIONS CAN BE COMPLETED DURING THE SAME WORKING DAY.
4. OPF 42 (HYDRATED AGGREGATE BASE) MATERIAL. CONTRACTOR SHALL CONTACT THE MANUFACTURER OF THE OPF MATERIAL PRIOR TO PLACEMENT OF ANY MATERIAL ON SITE. THE OPF 42 SHALL BE PLACED BY A CONTRACTOR HAVING A MINIMUM OF FOUR (4) SUCCESSFUL DOCUMENTED INSTALLATIONS USING THE OPF 42 MATERIAL. THE OPF 42 MATERIAL SHALL BE PLACED ON A PREPARED SUBGRADE AND COMPACTED IN UNIFORM LIFTS OF 6-IN COMPACTED (MAXIMUM) TO A MINIMUM 95% OF THE STANDARD PROCTOR COMPACTION EFFORT (ASTM D698) WITHIN THE RANGE OF -2% TO +1% OF OPTIMUM MOISTURE CONTENT. AFTER FINAL COMPACTION, DENSITY TESTS WILL BE PERFORMED BY THE OWNER'S LABORATORY.
5. POTABLE WATER REQUIRED FOR BASE CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH ITEM 104 (SPRINKLING). CONTRACTOR SHALL OBTAIN METER FROM CITY IF CITY WATER IS USED.
6. HYDRATED AGGREGATE BASE SHALL NEVER BE USED TO DISPLACE WATER.
7. ALL CONCRETE DRIVEWAYS AND MANHOLE APRONS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
8. ALL JOINTS IN CONCRETE DRIVEWAY, IF ANY, SHALL BE SEALED WITH A POLYURETHANE SEALANT OR APPROVED EQUAL.
9. REMOVAL OF CONCRETE PAVEMENT AND CURB, AS REQUIRED TO CONSTRUCT PROPOSED DRIVEWAYS SHALL BE PAID FOR AS LUMP SUM COST FOR DEMOLITION.

STORMWATER POLLUTION PREVENTION PLAN

1. THE TOTAL PROJECT AREA THAT WILL BE DISTURBED IS GREATER THAN 1 AND LESS THAN 5 ACRE. DUE TO THE SIZE OF THE PROJECT, THE CONTRACTOR SHALL:
   A) POST A SITE NOTICE
   B) SUBMIT A COPY OF THE SITE NOTICE TO THE MS4 OPERATOR (CITY OF PORT ARTHUR)
   C) MAINTAIN AN SW3P PLAN

SUPPLEMENTAL NOTES TO SPECIFICATIONS

1. THE OWNER WILL ESTABLISH THE PROJECT CONTROL POINTS, PI'S (POINTS OF INFLECTION), POINTS OF CURVATURE (PC, PI, AND PT), OR TANGENCY AND BENCH MARKS AT THE BEGINNING AND END OF THE PROJECT ON PLAN VIEW ONLY. CONTRACTOR SHALL MAINTAIN THESE POINTS THROUGH CONSTRUCTION.
2. THE CONTRACTOR SHALL FURNISH ALL LINES, GRADES AND BENCH MARKS, OTHER THAN THOSE SPECIFIED ABOVE.
3. THE OWNER'S TESTING AGENCY WILL PROVIDE QUALITY CONTROL ON THE CONSTRUCTION MATERIALS AND METHODS.

STORM WATER SEWER CONSTRUCTION NOTES

1. ALL RCP STORM SEWER TO BE A.S.T.M. F2648, SOIL TIGHT. INTEGRAL BELL, GASKETED HIGH DENSITY POLYETHYLENE PIPE, INSTALLED WITH 1.5 SACK CEMENT STABILIZED SAND BEDDING AND BACKFILL.
2. ALL INLETS AND JUNCTION BOXES SHALL BE IN ACCORDANCE WITH DETAILS ON PLANS. THE JUNCTION BOX SHALL HAVE A SOLID ROUND COVER. THE INLET SHALL HAVE A SLOTTED ROUND COVER. THE INLET SHALL HAVE AN OPEN THROAT ON THREE SIDES.

STATE OF TEXAS
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PROFESSIONAL ENGINEER

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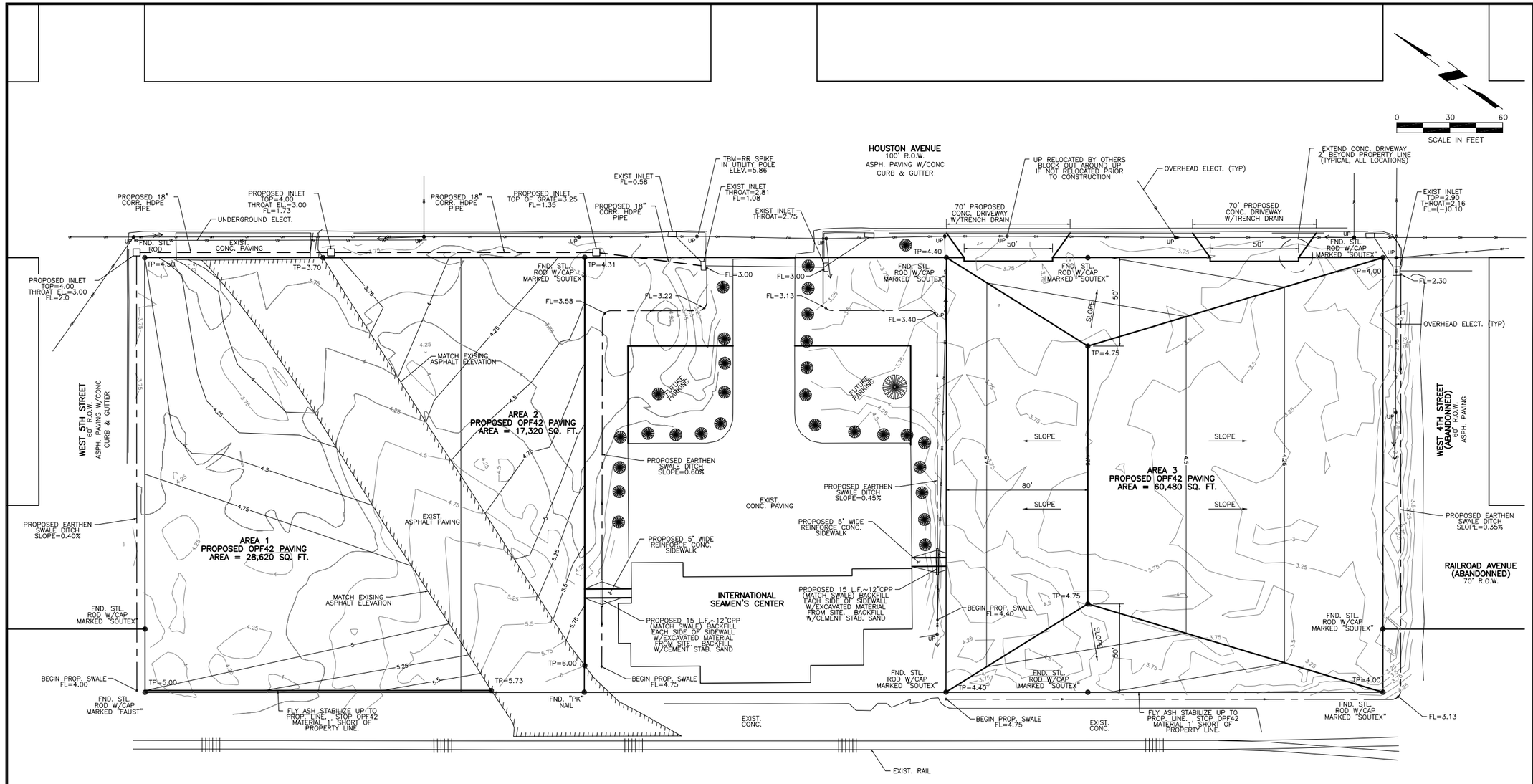
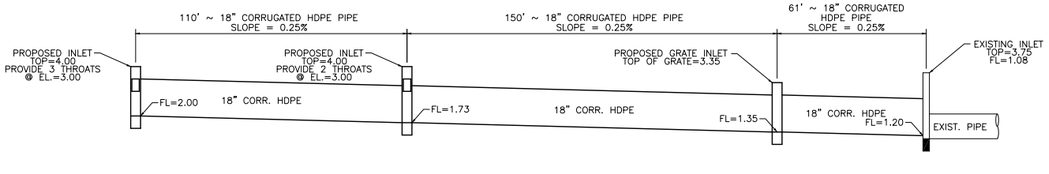
LOTS 6 & 7 LAYDOWN YARDS
GENERAL INFORMATION

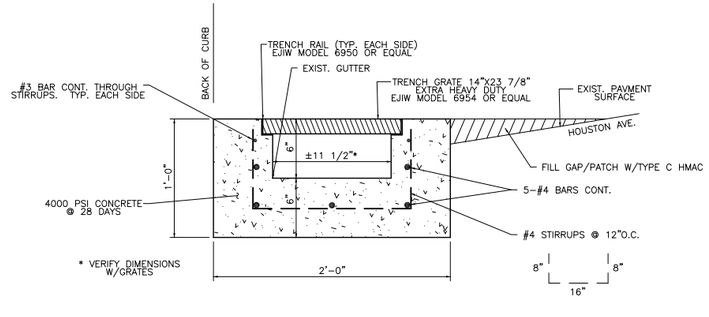
SHEET 2 REV.#





STORM SEWER PROFILE

SCALE: 1"=20' HOR., 1"=2' VERT.



TRENCH DRAIN DETAIL

NOT TO SCALE

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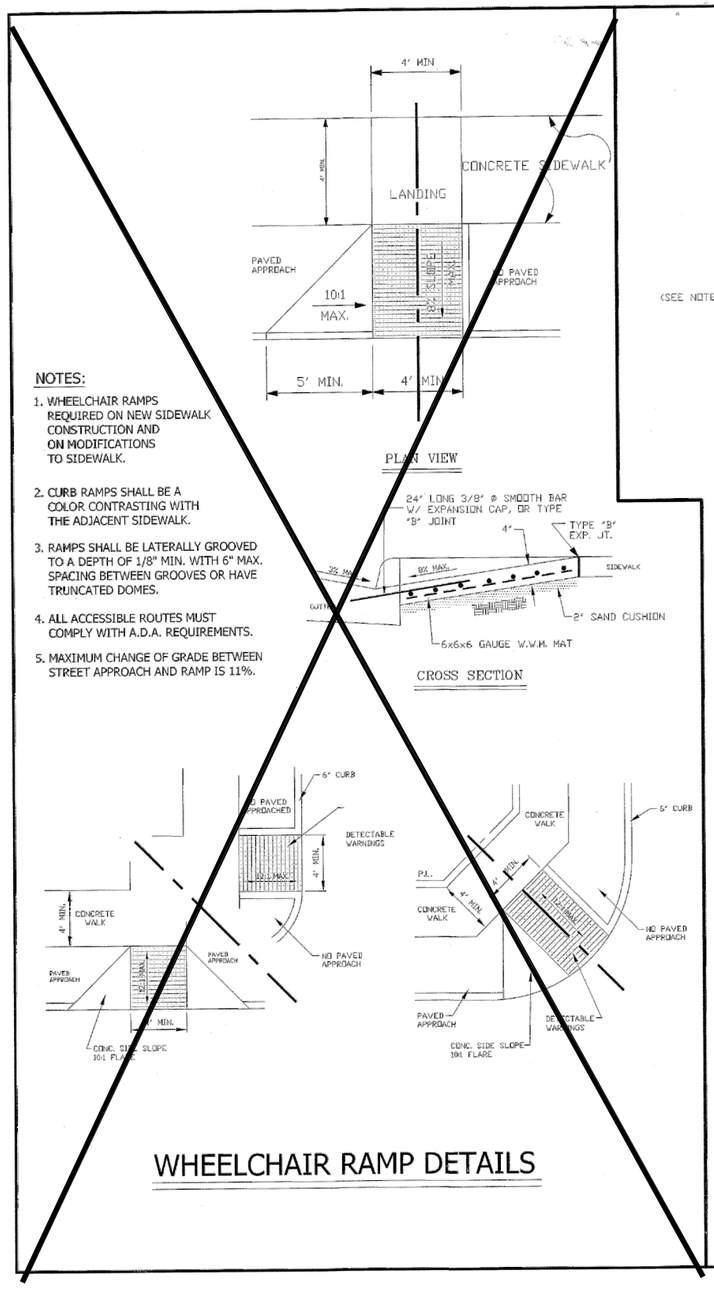
CONSTRUCTION OF
LOTS 6 & 7 LAYDOWN YARDS
LAYOUT

SHEET 3

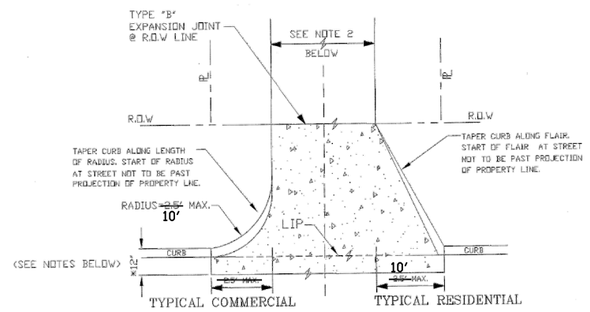
REV.#



NOTES:

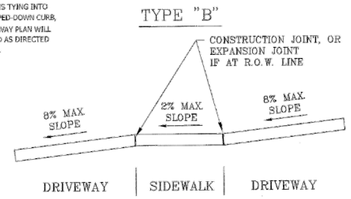
1. WHEELCHAIR RAMPS REQUIRED ON NEW SIDEWALK CONSTRUCTION AND ON MODIFICATIONS TO SIDEWALK.
2. CURB RAMPS SHALL BE A COLOR CONTRASTING WITH THE ADJACENT SIDEWALK.
3. RAMPS SHALL BE LATERALLY GROOVED TO A DEPTH OF 1/8" MIN. WITH 6" MAX. SPACING BETWEEN GROOVES OR HAVE TRUNCATED DOMES.
4. ALL ACCESSIBLE ROUTES MUST COMPLY WITH A.D.A. REQUIREMENTS.
5. MAXIMUM CHANGE OF GRADE BETWEEN STREET APPROACH AND RAMP IS 11%.

WHEELCHAIR RAMP DETAILS



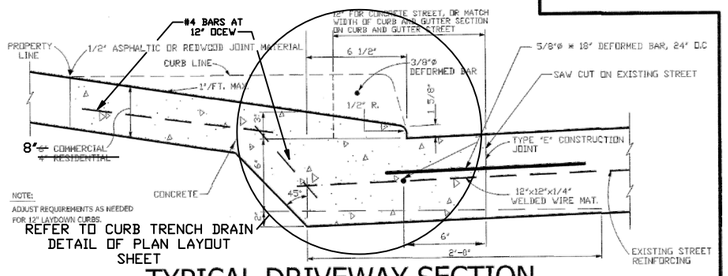
TYPICAL DRIVEWAY PLAN

NOTE:
WHERE DRIVEWAY IS TYING INTO A SECTION OF WARPED-DOWN CURB, THE TYPICAL DRIVEWAY PLAN WILL BE USED, OR PLACED AS DIRECTED THE CITY ENGINEER.

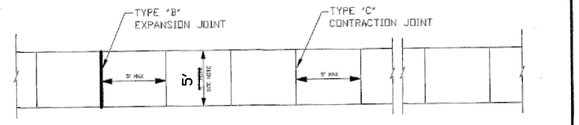


NOTES:

1. CONC. SHALL BE NO LESS THAN ~~3000~~ 4000 p.s.i. SIDEWALKS TO BE REMOVED AND REPOURED TO MEET ELEVATION OF DRIVEWAY.
2. MAXIMUM DRIVEWAY WIDTHS ARE 24 ft. FOR RESIDENTIAL AND 40 ft. FOR COMMERCIAL, MEASURED AT THE RIGHT-OF-WAY LINE.
3. DRIVEWAY GRADES ARE NOT TO EXCEED 8% AND SHALL NOT EXCEED 2% AT SIDEWALK CROSSINGS. THE 2% GRADE SHALL BE THE FULL WIDTH OF THE SIDEWALK. THIS PAVEMENT SHALL BE SEPARATED FROM THE REMAINDER OF THE DRIVEWAY APRON BY A TYPE "B" EXPANSION JOINT

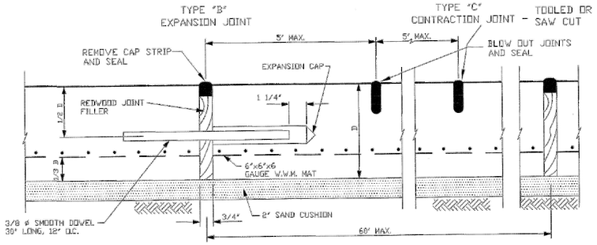


TYPICAL DRIVEWAY SECTION



PLAN VIEW
NO SCALE

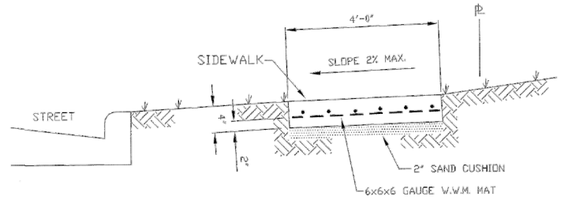
NOTE:
SIDEWALKS FOR RESIDENTIAL PROPERTIES SHALL BE A MINIMUM OF 4 ft. WIDE. COMMERCIAL SIDEWALKS ARE TO BE MINIMUM OF 5 ft. WIDE, WITH A TRANSITION WHEN CONNECTING TO AN EXISTING SIDEWALK OF LESSER OR GREATER WIDTH.



LONGITUDINAL SECTION
NO SCALE

NOTE:
CONC. SHALL BE NO LESS THAN 3000 p.s.i.

D=4' MIN., 6' FOR COMMERCIAL WALKS AT DRIVEWAYS



CROSS SECTION
NO SCALE

SIDEWALK DETAILS

10/8/14

REV.	DATE	DESCRIPTION	DWG.	APPR.

SIDEWALK & DRIVEWAY

DETAIL SHEET

CITY OF PORT ARTHUR, TEXAS
ENGINEERING DIVISION

DRAWN: A. ALFARO — SCALE: NOT TO SCALE
CHECKED: E. ROWDEN — APPROVED: E. LAUNIUS
DATE: 10/2013 — DWG. 1 OF 1

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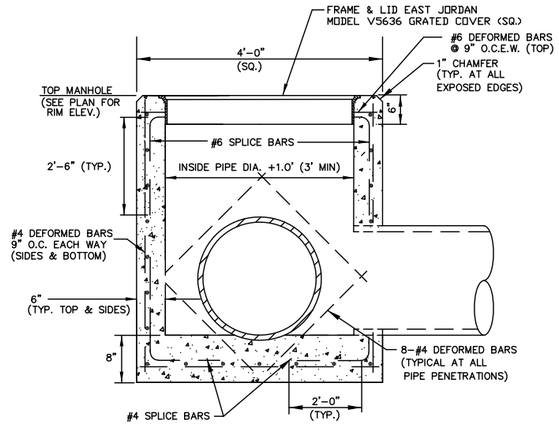
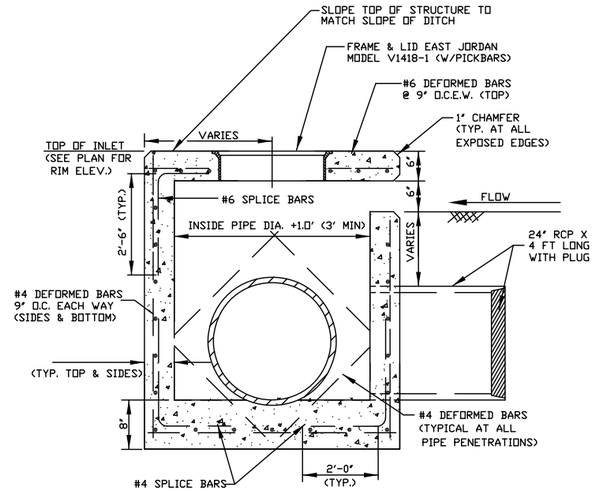
LOTS 6 & 7 LAYDOWN YARDS
SIDEWALK & DRIVEWAY

SHEET 4

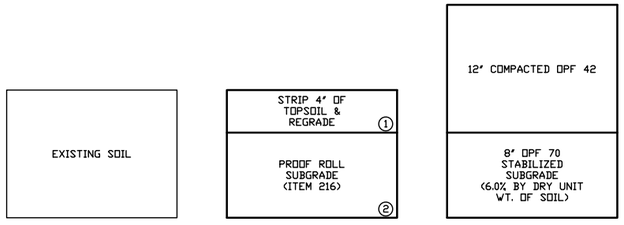
REV.#



CAST-IN-PLACE - MANHOLE / INLET
(N.T.S.)



TYPICAL SECTION - INLET
(N.T.S.)

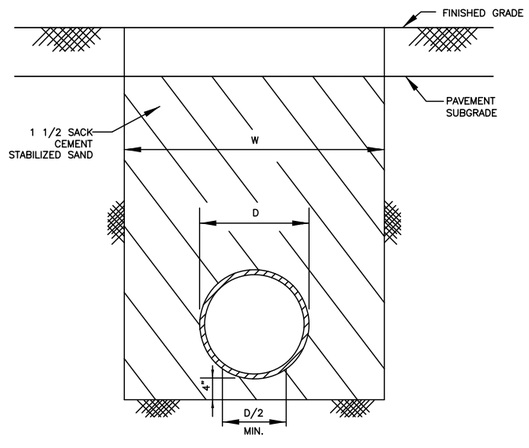


EXISTING | STRIP & PROOF ROLL | STABILIZE SUBGRADE & ADD OPF 42

NOTES:

1. STRIP TOP 4" TOPSOIL AND DISPOSE ON PORT PROPERTY AT A LOCATION ON THE WEST SIDE OF THE MLK BRIDGE. BLUE-TOP AND REGRADE SITE TO MATCH SUBGRADE ELEVATIONS REQUIRED TO ACHIEVE THE FINISHED GRADE ELEVATIONS.
2. PROOF ROLL SUBGRADE IN ACCORDANCE WITH ITEM 216 OF THE SPECIFICATIONS.
3. 8-INCHES OPF 70 STABILIZED SUBGRADE IN ACCORDANCE WITH ITEM 265 OF THE SPECIFICATIONS. USE 6% FLY ASH BY DRY UNIT WEIGHT OF SOIL (103 PCF).
4. 12-INCHES COMPACTED OPF42.

PAVING SECTION
(N.T.S.)



STORM SEWER BEDDING

FOR STORM SEWERS:
W = D + 2'-0" WHEN "D" IS LESS THAN OR EQUAL TO 42"
W = D + 4'-0" WHEN "D" IS GREATER THAN 42"

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CONSTRUCTION OF
LOTS 6 & 7 LAYDOWN YARDS
DETAILS

SHEET 5 REV.#

SITE DESCRIPTION

Notes:

1. The Site Description is accomplished using various sheets, each revealing separate details. This Index Sheet's purpose is to point the user to the appropriate location where the information required by the TPDES CGP can be found.
2. The project limits shown on the Title Sheet and limits of Owner's Right Of Way shall also be the limits of coverage of the SW3P.

NATURE OF ACTIVITY: Site Stabilization and Construction of an All-Weather Surface.

INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: Erosion & Sediment Controls, stripping topsoil, subgrade stabilization, install OPF surface course, clean up & final seeding.

TOTAL AREA OF SITE: 2.02 Acres approx. AREA TO BE DISTURBED: 1.68 Acres

TOTAL AREA OF OVERALL PROJECT (ALL PHASES) : 2.02 Acres

PRE-CONSTRUCTION RUNOFF CO-EFFICIENT: 0.25

POST-CONSTRUCTION RUNOFF CO-EFFICIENT: 0.90

EXISTING SOIL DESCRIPTION: Ground Cover Consists of Various Grasses. Subsurface Soils Consist of Clay.

GENERAL LOCATION MAP: Intersection of Houston Avenue & 5th Street
Port arthur, Texas, refer to plans cover sheet

RECEIVING WATERS: SEGMENT NUMBER City of Port Arthur Storm Sewer
SEGMENT NAME N/A

LOCATION OF WETLAND OR SPECIAL AQUATIC SITES: Information Does Not Apply

DRAINAGE PATTERNS: Surface runoff into City of Port Arthur storm sewer system

TYPICAL AREAS OF SOIL DISTURBANCE: Vegetated areas along perimeter of site.

TYPICAL AREAS WHICH WILL NOT BE DISTURBED: Areas between chainlink fence and paved streets.

LOCATION OF OFF-SITE SURFACE RECEIVING WATERS: Sabine-Neches Intracoastal Waterway via Houston Avenue Pump Station.

LOCATIONS WHERE STABILIZATION PRACTICES WILL OCCUR: Shown on SW3P Plan Sheet and as required by construction general permit.

LOCATIONS OF OFF-SITE STORAGE OF MATERIALS AND EQUIPMENT, WASTE, BORROW, OR DEDICATED MATERIAL PROCESSING PLANTS: None At This Time

LOCATIONS WHERE STORM WATER DISCHARGES TO SURFACE WATERS: Immediately Downstream of DD7's Houston Ave. Pump Station into S-N waterway.

LOCATION OF POLLUTION CONTROL MEASURES: Shall be found on the SW3P Sheets.

CONTROLS

SOIL STABILIZATION PRACTICES

INTERIM:

____ TEMPORARY SEEDING	__X__ PRESERVATION OF NATURAL RESOURCES
____ MULCHING (Hay or Straw)	____ FLEXIBLE CHANNEL LINER
____ BUFFER ZONES	____ OTHER (IMMEDIATE REPLACEMENT OF CONCRETE LINER.)

PERMANENT:

__X__ SEEDING	____ RETENTION BLANKET
____ BLOCK SOD	____ CHANNEL LINER
____ OTHER	

STRUCTURAL PRACTICES (T/P)*

__T__ SILT FENCE	____ PAVED FLUMES
____ HAY BALES	__T__ ROCK BEDDING AT CONSTRUCTION EXIT
____ ROCK BERMS	____ TIMBER MATTING AT CONSTRUCTION EXIT
____ PIPE SLOPE DRAINS	____ SEDIMENT TRAPS
____ CHANNEL LINERS	____ SEDIMENT BASINS
____ STORM SEWERS	____ CURB and GUTTER
____ STORM INLET SEDIMENT TRAP	____ VELOCITY CONTROL DEVICES
____ STONE OUTLET STRUCTURES	
____ DIVERSION, INTERCEPTOR, or PERIMETER SWALES	
____ DIVERSION, INTERCEPTOR, or PERIMETER DIKES	

* T means Temporary - P means Permanent

PERMANENT POST CONSTRUCTION TSS CONTROLS

____ RETENTION / IRRIGATION
____ EXTENDED DETENTION BASINS
__X__ VEGETATIVE FILTER STRIPS / VEGETATIVE SWALES
____ CONSTRUCTED WETLANDS
____ WET BASINS

OTHER CONTROLS

__X__ WATERING FOR DUST CONTROLS
__X__ SEDIMENT REMOVAL FROM ROADWAY (SWEEPING)
__X__ LOADED TRUCKS WILL BE COVERED WITH TARP

The above indicated practices are proposed to control pollutants in storm water discharges. These practices are based on information contained in TxDOT Storm Water Management Guidelines. The Schedule of implementation of these practices will be based on the intended Sequence of Major Soil Disturbing Activities. Stabilization measures shall be initiated no later than 14 days after construction activity of that portion of the site has temporarily or permanently ceased.

Describe construction and waste materials expected to be stared on site and proposed controls to reduce pollutants from these materials (include storage practices spill prevention and response. Contractor shall store all construction materials in locations which minimize the potential for the materials to enter storm water runoff. Temporary structural controls may be required to control erosion of excavation during storm events. Construction waste materials shall not be buried or disposed of on site, but shall be stored and disposed of in accordance with local, state and federal regulations. Construction staging areas and vehicle maintanance area shall be constructed by the contractor in a manner to minimize the runoff of pollutants.

Describe pollutant sources from areas other than construction and measures implemented at those sites to minimize pollutant discharges. All sanitary waste will be collected from portable units as necessary or as required by local regulations by a licensed sanitary waste management company.

Describe measures necessary to protect listed endangered or threatened species, or critical habitat. N/A

INFORMATION

MAINTENANCE:

All erosion and sediments control and other protective measures identified in the SW3P must be maintained in effective operating conditions. If site inspections required by this permit identify BMP's that are not operating effectively, maintenance shall be performed before the next anticipated storm event, or as necessary to maintain the continued effectiveness of storm water controls. If no maintenance prior to the next anticipated storm even is unpracticable, maintenance must be scheduled.

INSPECTION:

Qualified personnel shall inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, and locations where vehicles enter or exit the site, at least once every 14 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater.

a. Disturbed areas that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system,. Sediment and erosion control measures identified on the SW3P shall be observed to ensure that they are operating correctly. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking. Sediments must be removed from sediment control structures no later than the time that the design capacity has been reduced by 50%.

b. Based on the results of the inspection, the SW3P shall be revised to include (show on Site Map) additional or modified BMP's designed to correct the observed deficiency. Revisions to the SW3P must be completed within seven (7) calendar days following the inspection.

c. A report summarizing the scope, date, name and qualifications of inspector, and major observations relating to the implementation of the SW3P shall be produced and retained as part of the SW3P for 3 years from date of final stabilization.

d. The following records must be maintained and either attached to or referenced in the SW3P, and made readily available upon request to the parties in Port III.D.1 of the CGP: 1). The dates when major grading activities occur; 2). The dates when construction activities temporarily or permanently cease on a portion of the site and; 3). The dates when stabilization measures are initiated.

INSPECTOR PAPERWORK CHECKLIST:

- ☐ Contact Form (1)
- ☐ Notice of Intent (1)(2) (NOT REQUIRED DUE TO SIZE OF DISTURBED AREA)
- ☐ SW3P Certification Statement (2)
- ☐ Delegation of Signature Authority (all Inspectors signing reports) (2)(3)
- ☐ TPDES General Permit (2)(3)
- ☐ Inspection and Maintenance Report (2)(3)
- ☐ Notice of Termination (2) (NOT REQ'D DUE TO SIZE OF DISTURBED AREA)
- ☐ SW3P Plan (2)(3)
- ☐ Inspector Qualification Form (2)(3)
- ☐ Project Diary(2)(3)

(1) The information should be displayed on the Project.
(2) The information should be a part of the permanent SW3P file maintained at the Owner's Office.
(3) The information should be maintained at the Field Office.

STORM WATER POLLUTION PREVENTION PLAN is consistent with requirements specified in applicable sediment and erosion site plans or site permits, or storm water management site plans or site permits approved by State, Tribal or local officials (i.e. MS4 Permits).

Any reportable quantity of Hazardous Material release must be reported to the National Response Center at 1-800-424-8802.

A copy of the Construction General Permit is part of the SW3P.

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EDWARD A. LONG, JR.
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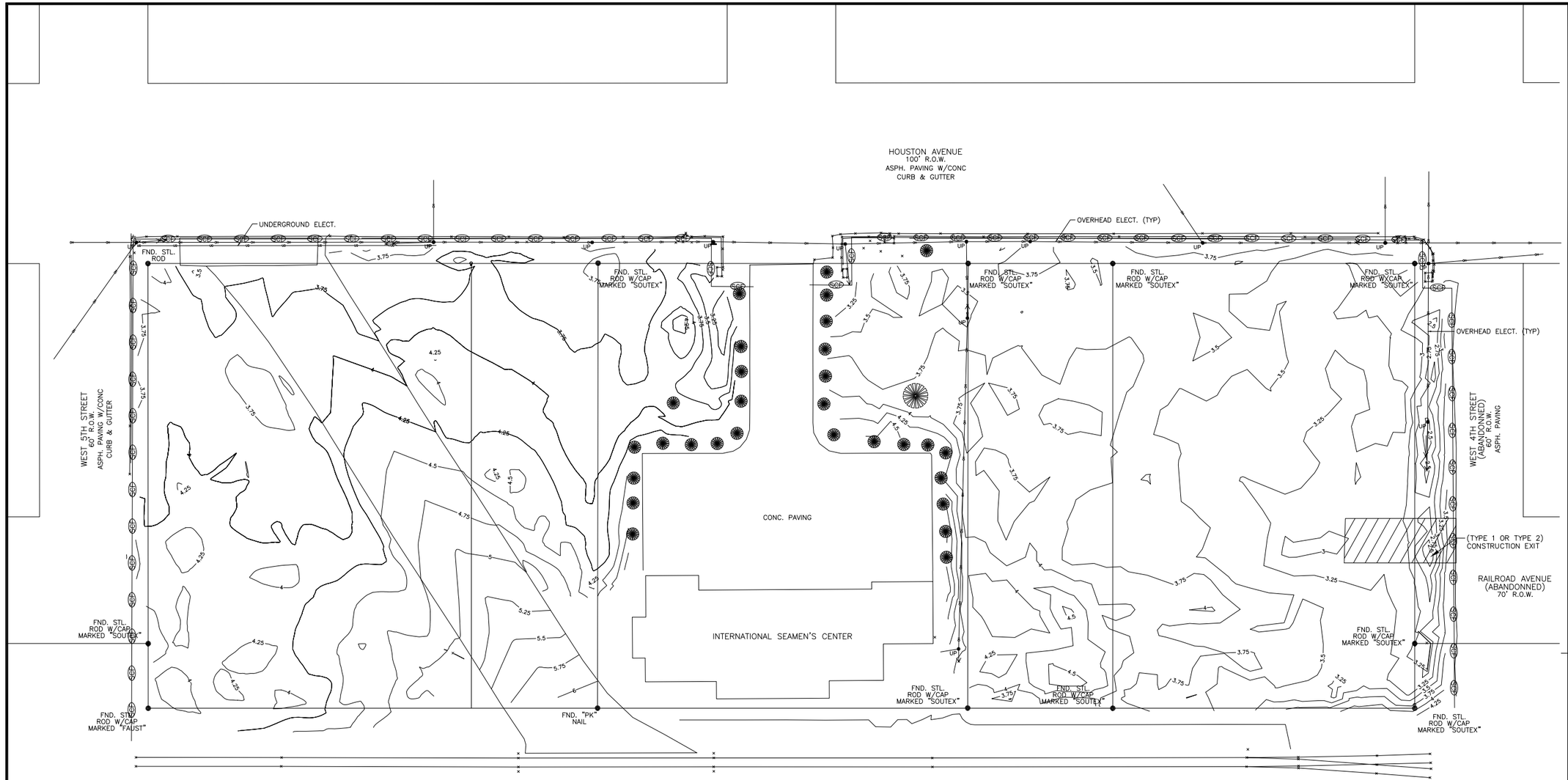
PORT ARTHUR
INTERNATIONAL
PUBLIC PORT
PORT OF PORT ARTHUR
NAVIGATION DISTRICT OF
JEFFERSON COUNTY, TEXAS

CONSTRUCTION OF
LOTS 6 & 7 LAYDOWN YARDS

SW3P INDEX

File 8.326-B SHEET 6



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SCALE IN FEET

LEGEND

- SCF — SEDIMENT CONTROL FENCE
- RFD2 — ROCK FILTER DAM (TYP. 2)
- BALED HAY
- CONSTRUCTION EXIT (TYPE 1 OR TYPE 2)

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JEFFERSON COUNTY, TEXAS

CALL BEFORE YOU DIG
TEXAS 811
CALL 811
48 HR. NOTICE REQUIRED
WWW.TEXAS811.ORG

SCALE:	NTS	DGN. BY:	EAL
DATE:	FEBRUARY 2019	DWN. BY:	EAL
JOB NO.	8.326-B	CHECKED:	-

DATE	REVISION DESCRIPTION	APP.

CONSTRUCTION OF
LOTS 6 & 7 LAYDOWN YARDS
SW3P LAYOUT

SHEET 7 REV.#

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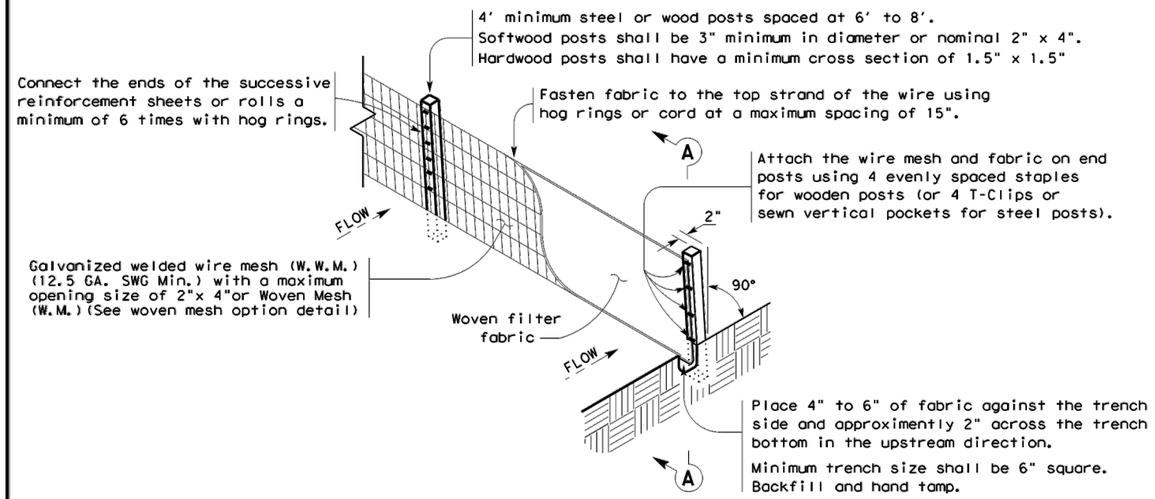
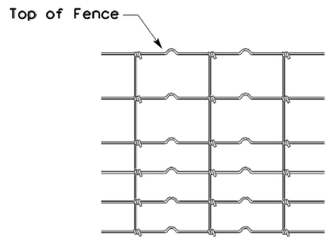
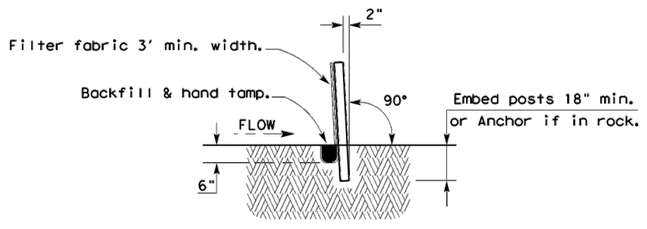


TEMPORARY SEDIMENT CONTROL FENCE

SCF





SECTION A-A

HINGE JOINT KNOT WOVEN MESH (OPTION) DETAIL

Galvanized hinge joint knot woven mesh (12.5 GA.SWG Min.) requires a minimum of five horizontal wires spaced at a maximum of 12 inches apart and all vertical wires spaced at a maximum of 12 inches apart.

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/FT^2. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

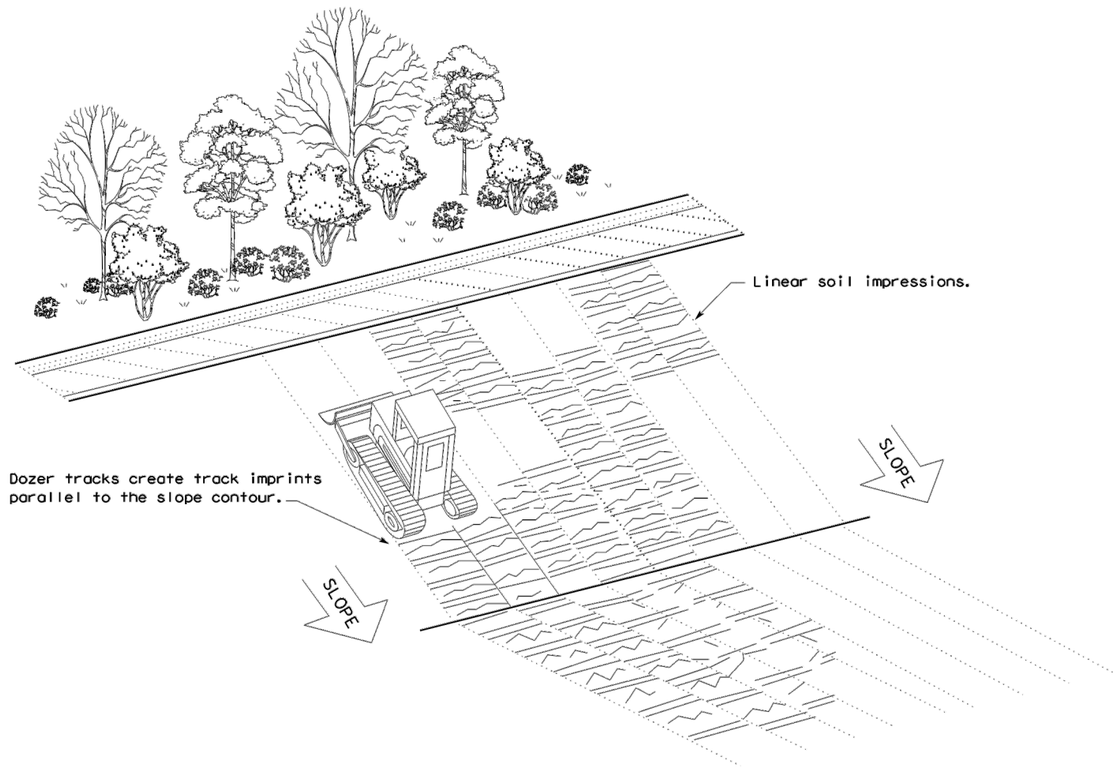
LEGEND

Sediment Control Fence

SCF

GENERAL NOTES

1. Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
2. Perform vertical tracking on slopes to temporarily stabilize soil.
3. Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
4. Do not exceed 12" between track impressions.
5. Install continous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.



VERTICAL TRACKING

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Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

FENCE & VERTICAL TRACKING

EC(1)-16

FILE: ec116		DN: TxDOT	CK: KM	DW: VP		DN/CK: LS	
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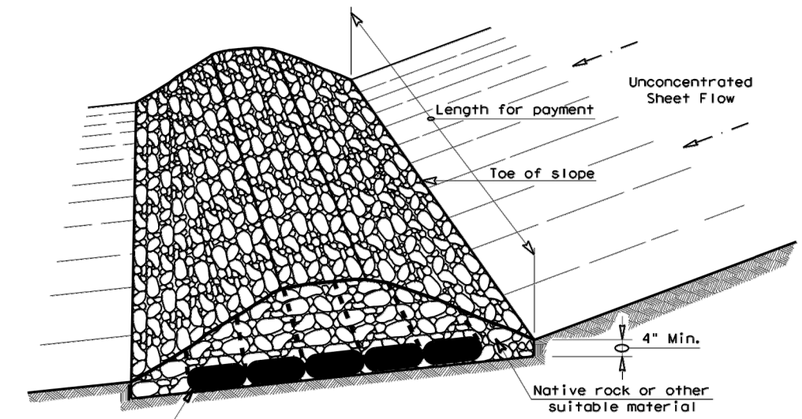
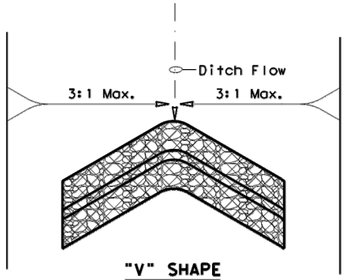
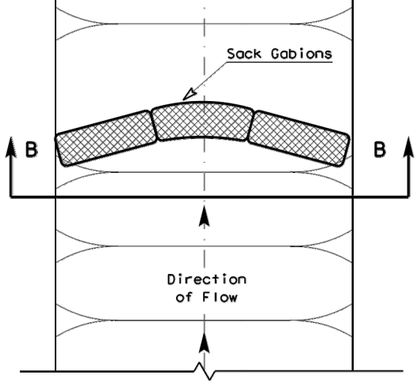


FILTER DAM AT TOE OF SLOPE

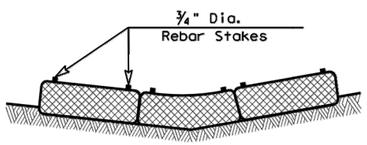
RFD1



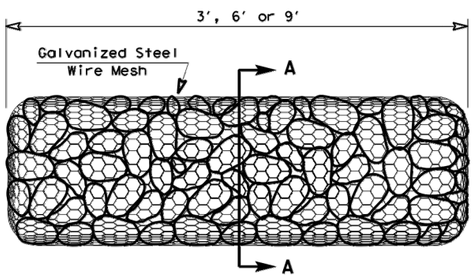
"V" SHAPE PLAN VIEW



PLAN VIEW

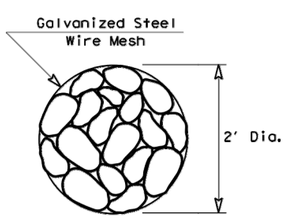


SECTION B-B

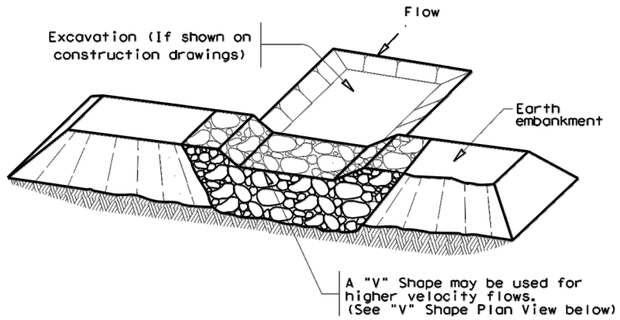


TYPE 4 (SACK GABIONS)

RFD4

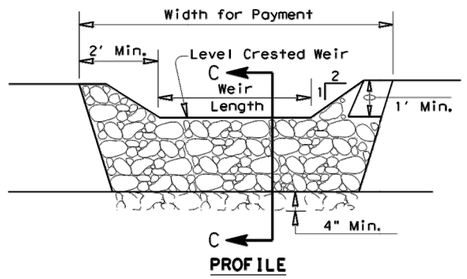


SECTION A-A

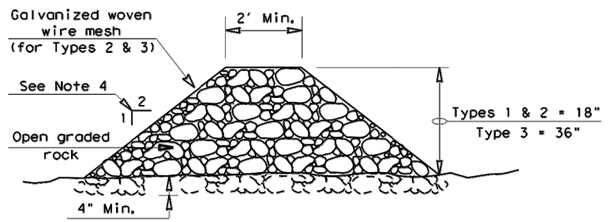


FILTER DAM AT SEDIMENT TRAP

RFD1 OR RFD2



PROFILE



SECTION C-C

ROCK FILTER DAM USAGE GUIDELINES

Rock Filter Dams should be constructed downstream from disturbed areas to intercept sediment from overland runoff and/or concentrated flow. The dams should be sized to filter a maximum flow through rate of 60 GPM/FT^2 of cross sectional area. A 2 year storm frequency may be used to calculate the flow rate.

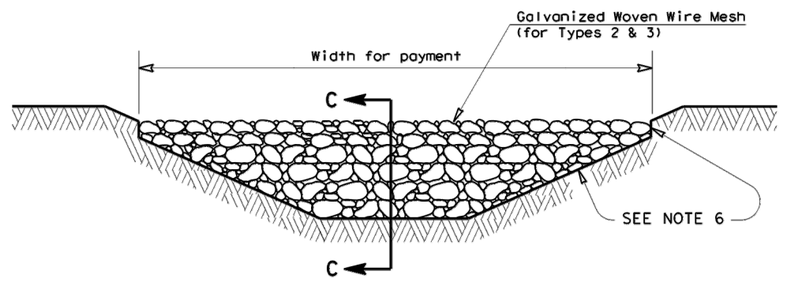
Type 1 (18" high with no wire mesh) (3" to 6" aggregate): Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 5 acres or less. Type 1 may not be used in concentrated high velocity flows (approximently 8 Ft/Sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh) (3" to 6" aggregate): Type 2 may be used in ditches and at dike or swale outlets.

Type 3 (36" high with wire mesh) (4" to 8" aggregate): Type 3 may be used in stream flow and should be secured to the stream bed.

Type 4 (Sack gabions) (3" to 6" aggregate): Type 4 May be used in ditches and smaller channels to form an erosion control dam.

Type 5: Provide rock filter dams as shown on plans.



FILTER DAM AT CHANNEL SECTIONS

RFD1 OR RFD2 OR RFD3

GENERAL NOTES

1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream at drainage structures, and in roadway ditches and channels to collect sediment.
2. Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
3. The rock filter dam dimensions shall be as indicated on the SW3P plans.
4. Side slopes should be 2:1 or flatter. Dams within the safety zone shall have sideslopes of 6:1 or flatter.
5. Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
6. Filter dams should be embedded a minimum of 4" into existing ground.
7. The sediment trap for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
8. Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. For in stream use, the mesh should be secured or staked to the stream bed prior to aggregate placement.
9. Sack Gabions should be staked down with ¾" dia. rebar stakes, and have a double-twisted hexagonal weave with a nominal mesh opening of 2 ½" x 3 ¼"
10. Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
11. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

PLAN SHEET LEGEND

Type 1 Rock Filter Dam — RFD1
Type 2 Rock Filter Dam — RFD2
Type 3 Rock Filter Dam — RFD3
Type 4 Rock Filter Dam — RFD4

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Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

ROCK FILTER DAMS

EC(2)-16

FILE: ec216	DN: TxDOT	CK: KM	DW: VP	DN/CK: LS
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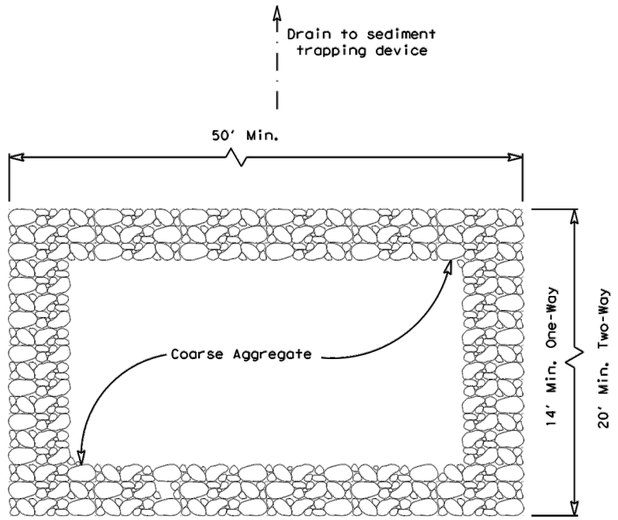
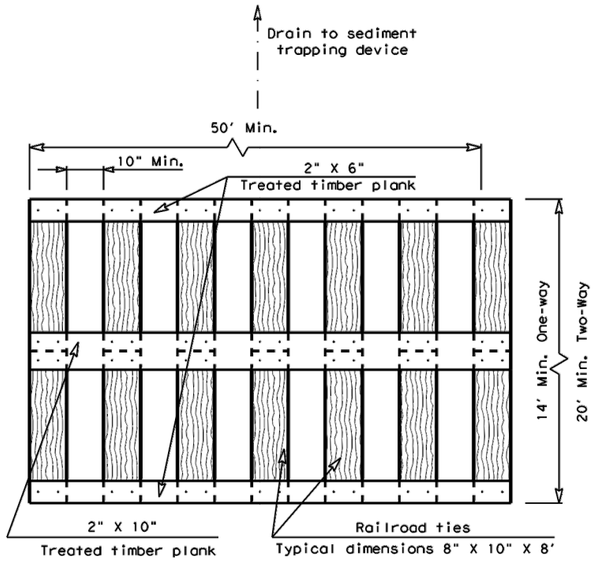


PLAN VIEW



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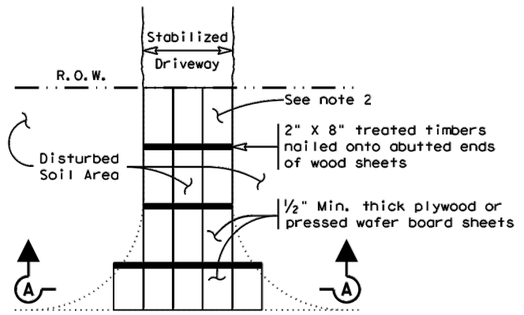

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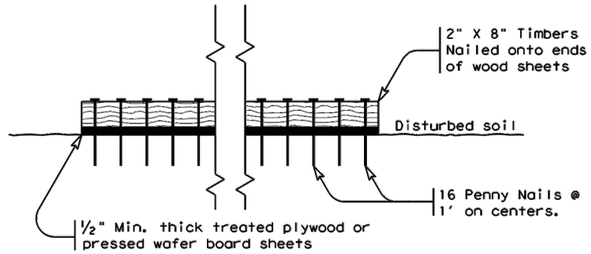
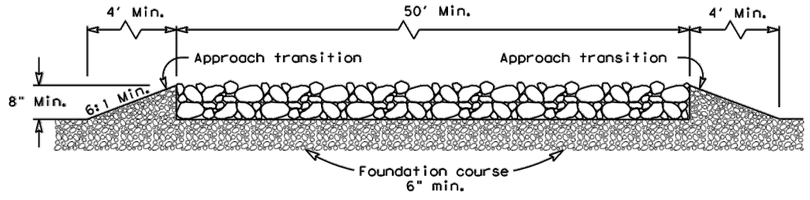


SECTION A-A

CONSTRUCTION EXIT (TYPE 3)

SHORT TERM



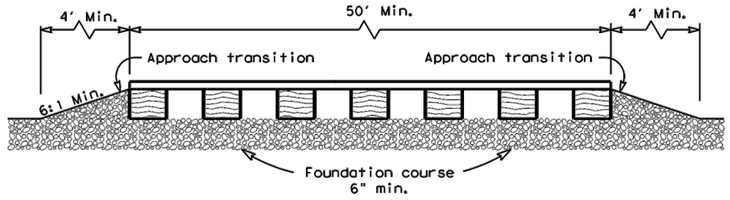
ELEVATION VIEW

CONSTRUCTION EXIT (TYPE 1)

ROCK CONSTRUCTION (LONG TERM)

GENERAL NOTES (TYPE 1)

1. The length of the type 1 construction exit shall be as indicated on the plans, but not less than 50'.
2. The coarse aggregate should be open graded with a size of 4" to 8".
3. The approach transitions should be no steeper than 6:1 and constructed as directed by the Engineer.
4. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other materialas approved by the Engineer.
5. The construction exit shall be graded to allow drainage to a sediment trapping device.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
7. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.



ELEVATION VIEW

CONSTRUCTION EXIT (TYPE 2)

TIMBER CONSTRUCTION (LONG TERM)

GENERAL NOTES (TYPE 2)

1. The length of the type 2 construction exit shall be as indicated on the plans, but not less than 50'.
2. The treated timber planks shall be attached to the railroad ties with ½"x 6" min. lag bolts. Other fasteners may be used as approved by the Engineer.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
5. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
6. The construction exit should be graded to allow drainage to a sediment trapping device.
7. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
8. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.

GENERAL NOTES (TYPE 3)

1. The length of the type 3 construction exit shall be as shown on the plans, or as directed by the Engineer.
2. The type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the limits shown on the plans.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

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Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

CONSTRUCTION EXITS

EC(3)-16

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