

PROPOSED DRAINAGE, GRADING, PAVING AND UTILITIES CONSTRUCTION PLANS

TO SERVE
FOREST PARK LANE
AT
1849 FOREST PARK LANE
PEARLAND, TEXAS 77581

NOTE:

THESE PLANS ARE BASED ON RECEIVED SITE SURVEY INFORMATION THAT HAS NOT BEEN FIELD VERIFIED BY RSG ENGINEERING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF KEY UTILITIES AND KEY SITE ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND SITE CONDITIONS SHALL BE PROMPTLY COMMUNICATED WITH PROJECT ENGINEER.

AUGUST, 2022

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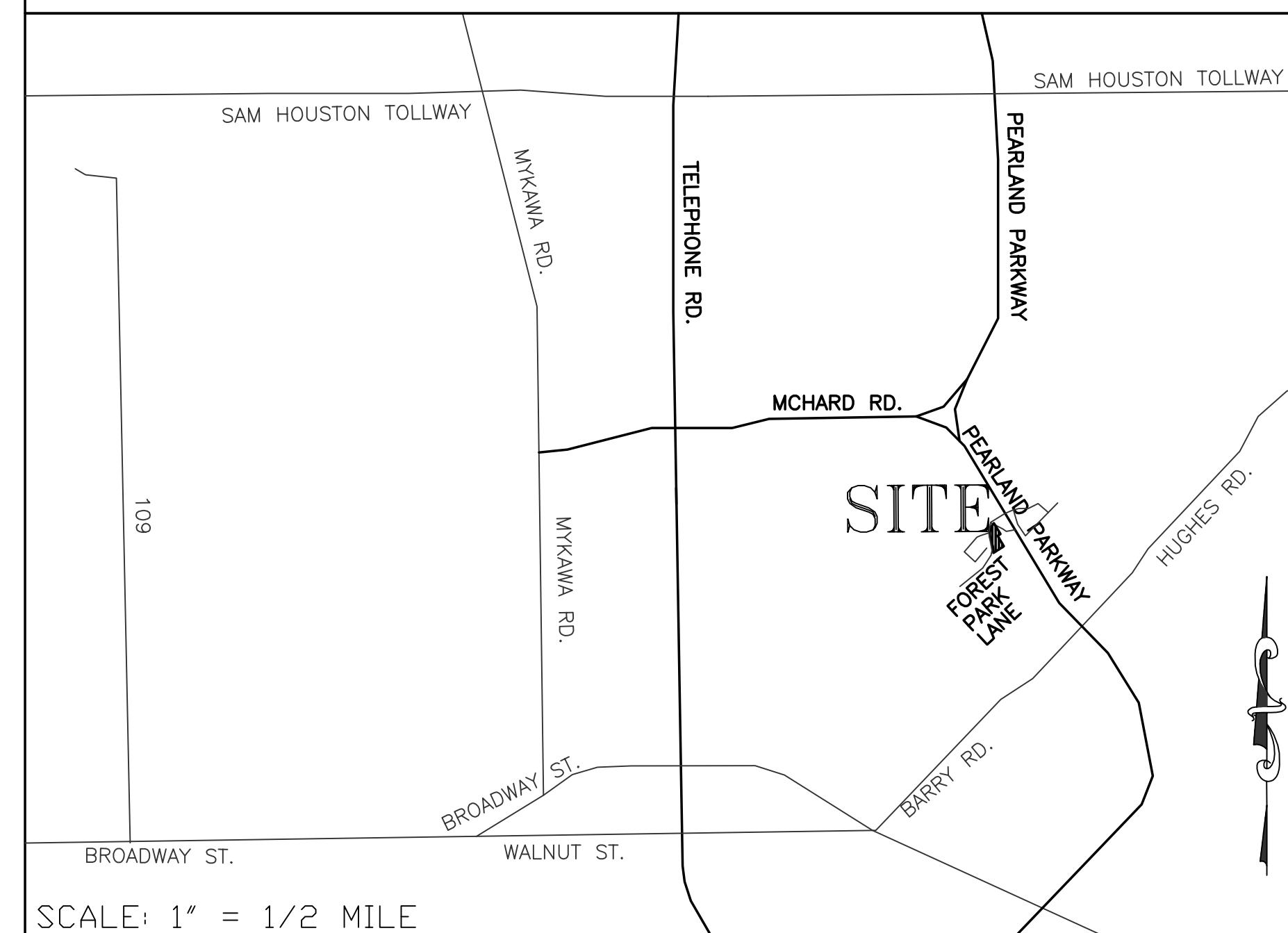
NOTE:

THE SCOPE OF THESE PLANS IS STRICTLY LIMITED TO CIVIL SITE WORK AND INFRASTRUCTURE DESIGN. COMPLIANCE WITH CODES AND REGULATIONS RELATED TO THE DESIGN OF IMPROVEMENTS INSIDE THE BUILDING ENVELOPE ARE NOT WITHIN THE SCOPE OF RSG ENGINEERING. BUILDING CODE COMPLIANCE IS NOT THE RESPONSIBILITY OF RSG ENGINEERING.

NOTE:

CONTRACTOR IS RESPONSIBLE TO CONTACT CITY OF PEARLAND CHIEF INSPECTOR "MR. NESTER" MIN. 48 HOURS BEFORE CONSTRUCTION. @281-851-2314

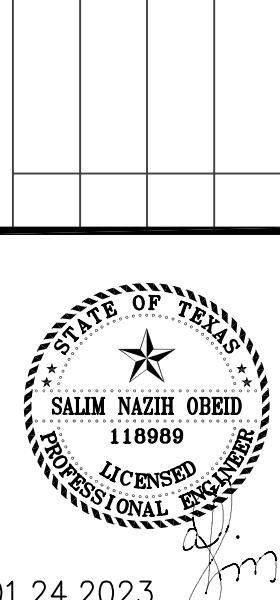
VICINITY MAP



project
FOREST PARK LANE
at
1849 FOREST PARK LANE
PEARLAND, TEXAS 77581

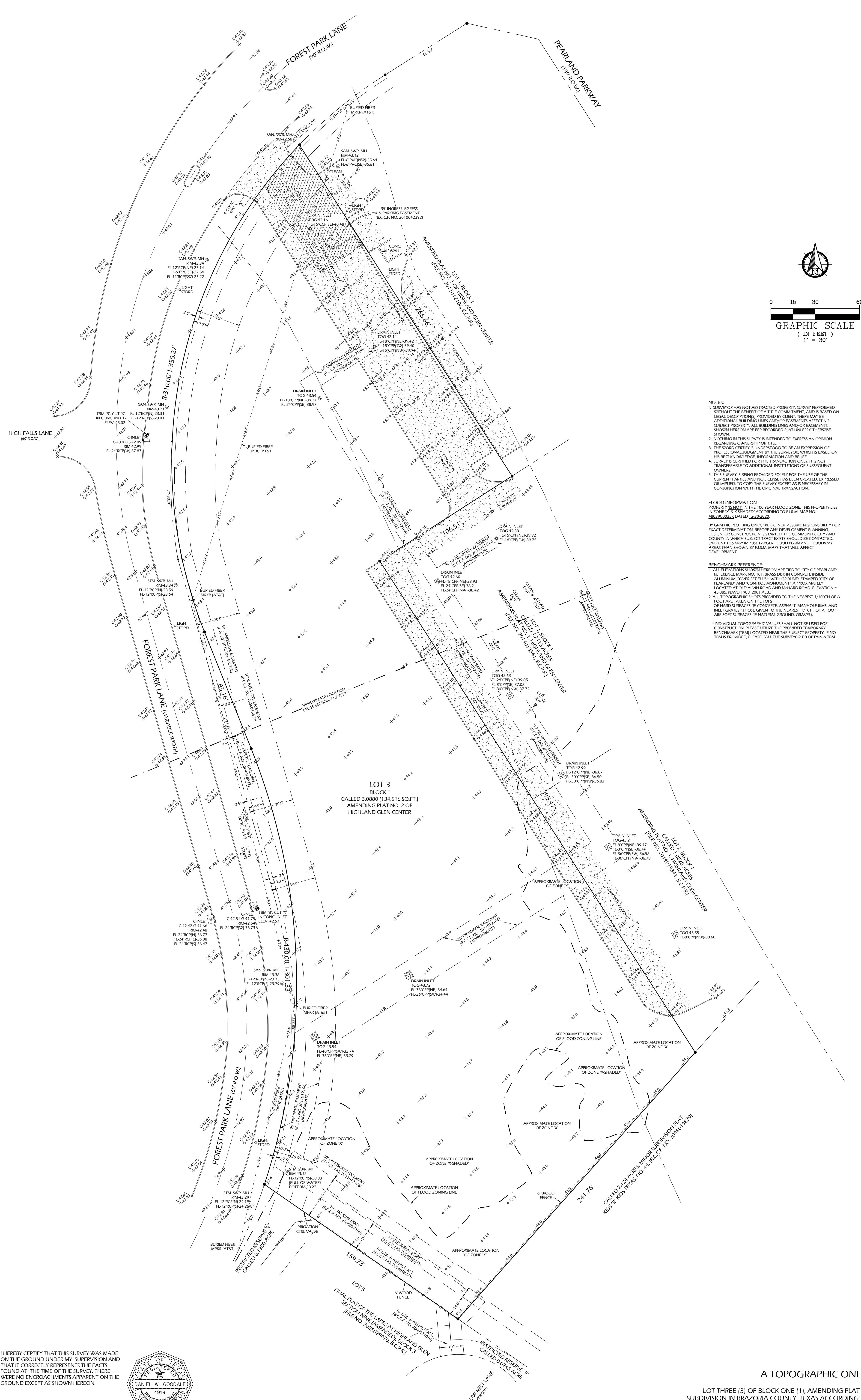
RSG ENGINEERING

13501 KATY FREEWAY
SUITE 3160
HOUSTON, TEXAS 77079
PH. 713-783-7777
TBPE FIRM #: 15498



COVER SHEET

DRAWN BY: CM	CHECKED: SNO
PROJECT No: 2286.12	SHEET No: C1.0



I HEREBY CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND UNDER MY SUPERVISION AND THAT IT CORRECTLY REPRESENTS THE FACTS FOUND AT THE TIME OF THE SURVEY. THERE WERE NO ENCROACHMENTS APPARENT ON THE GROUND EXCEPT AS SHOWN HEREON.



DANIEL W. GOODALE, P.R.L.S. NO. 4919

A TOPOGRAPHIC ONLY SURVEY OF

LOT THREE (3) OF BLOCK ONE (1), AMENDING PLAT NO. 2 OF HIGHLAND GLEN CENTER, A SUBDIVISION IN BRAZORIA COUNTY, TEXAS ACCORDING TO THE MAP OR PLAT THEREOF, RECORDED IN PLAT NO. 2014013341 OF THE PLAT RECORDS OF BRAZORIA COUNTY, TEXAS.

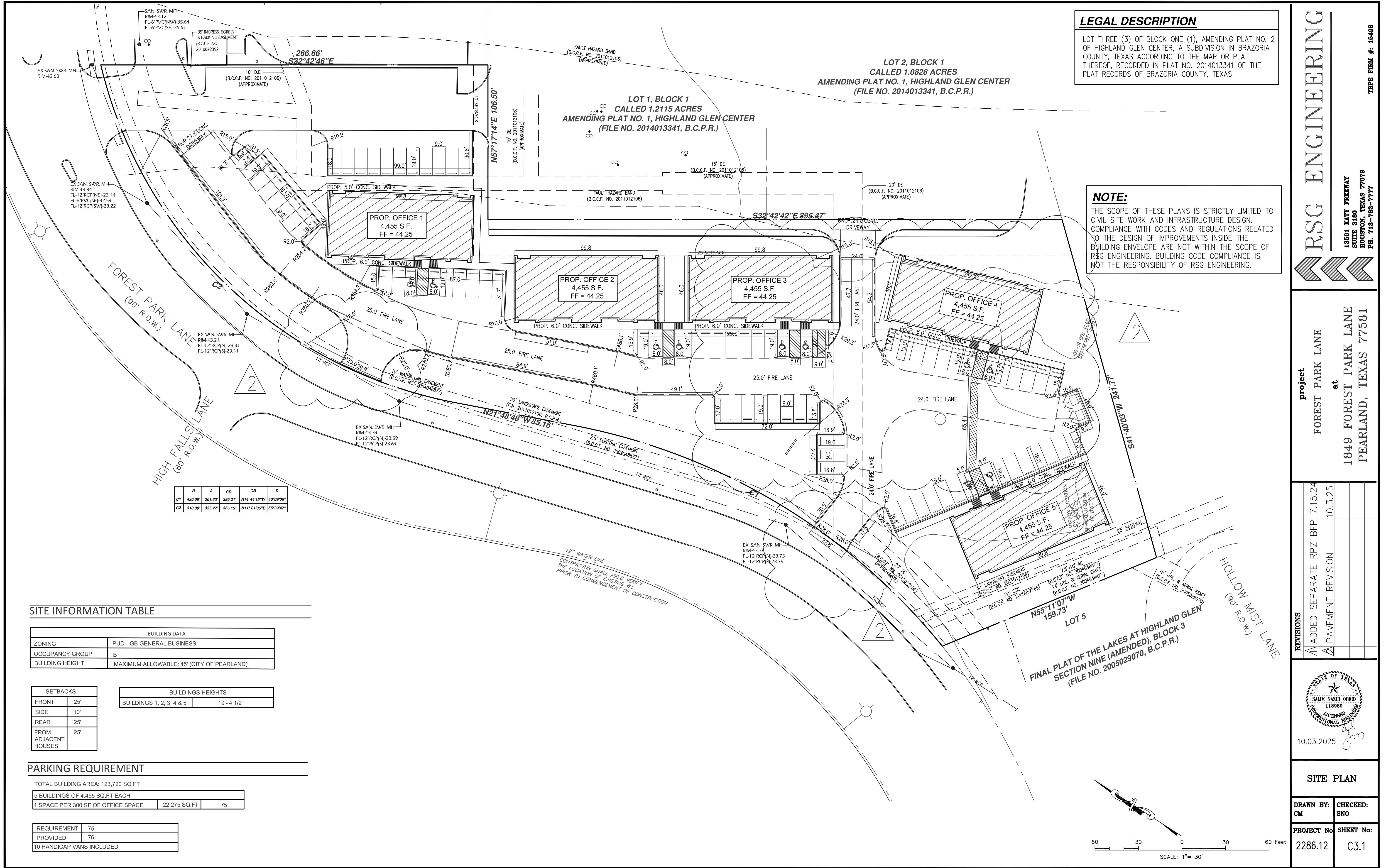
DATE: 06-14-2022	CLIENT: DANJAR INVESTMENTS INC
UPDATE: 12-20-2022 (ADD'L UTILITIES)	DANJAR MUSAKYEV
DRAWN BY: EJL	1810-1830 PEARLAND PKWY
APPROVED BY: DWG	PEARLAND, TX 77581
PROJECT NO: GL-10661	

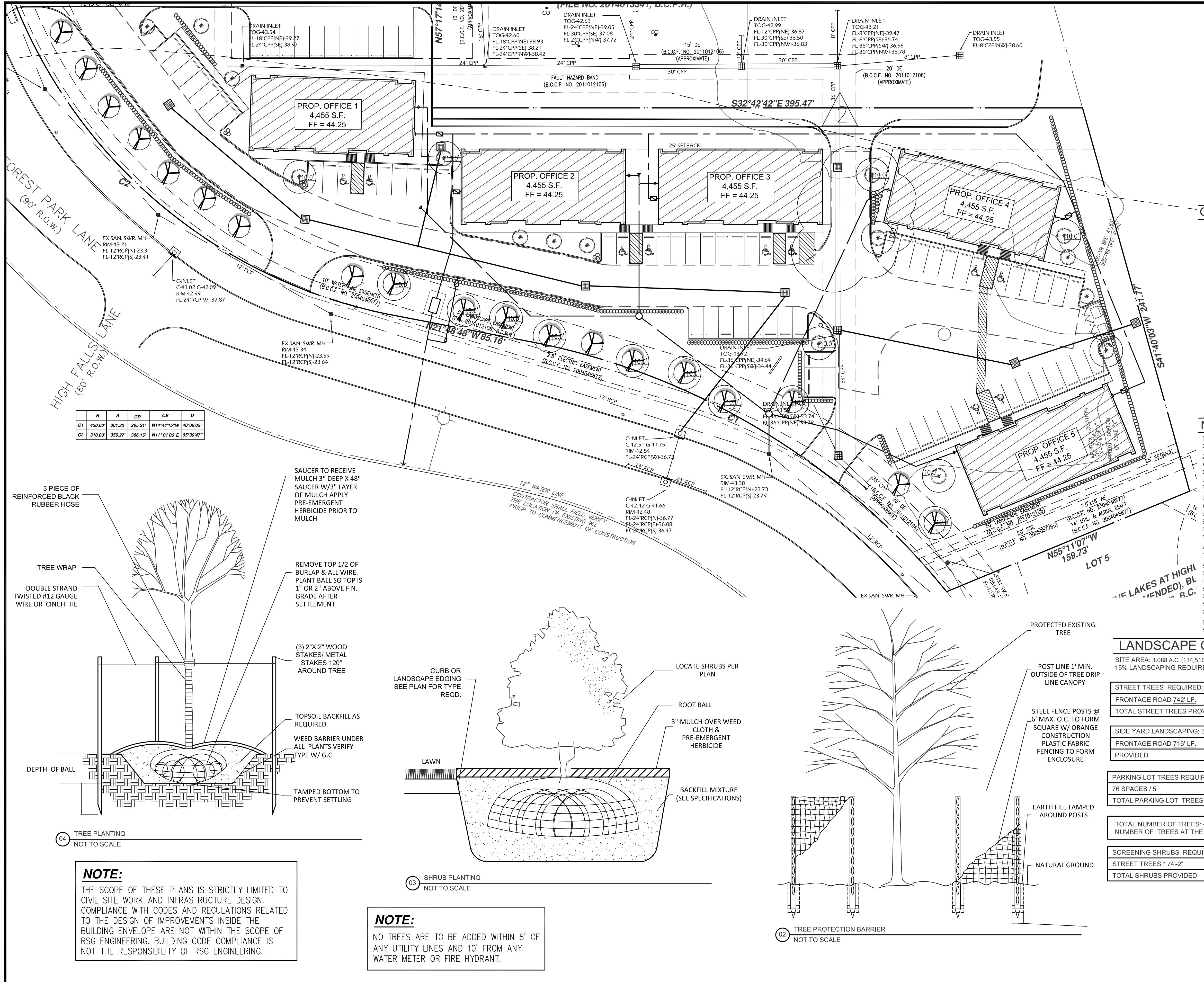
1810-1830 PEARLAND PARKWAY

PEARLAND, TEXAS 77581

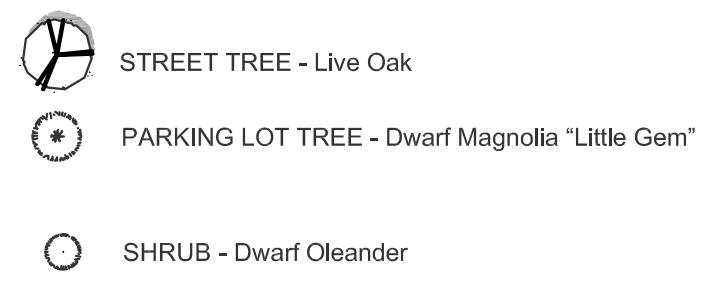


GREENLEAF LAND SURVEYS, LLC
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HOUSTON, TEXAS 77092
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SYMBOL LEGEND



SCREENED SHRUB DOCKS - EVERY 3 FT ON CENTER
AND MINIMUM 3FT IN HEIGHT - Dwarf Oleander
PER CHAPTER 2, SECTION 2.4.5.1 UDC - CITY OF PEARLAND

PER CHAPTER 2, SECTION 2.4.5.1 UDC - CITY OF PEARLAND

GENERAL LANDSCAPE NOTES

- 1 - ALL PLANTS SHALL BE FULL POT AND HEAD. SYMMETRICAL FOLIAGE AND BRANCHING STRUCTURE.
- 2- CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION OR TRENCHING. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING OR REPLACING ANY DAMAGE TO UTILITIES OR OTHER IMPROVEMENTS.
- 3- GRADE SURFACE TO ENSURE AREAS DRAIN AWAY FROM STRUCTURES AND TO PREVENT PONDING AND POCKETS OF SURFACE DRAINAGE SPREAD AIR AVERAGE OF 1" SHARP SAND OVER ENTIRE AREA TO BE SOLID SODDED. HAND RAKE ENTIRE AREA PRIOR TO SODDING, OBTAIN OWNER'S REPRESENTATIVE'S APPROVAL OF GRADE PRIOR TO SODDING.
- 4- IRRIGATION SPRINKLER ALL LANDSCAPING AND GRASS AREAS. IRRIGATION PLAN WILL BE PROVIDED AND PERMITTED BY LANDSCAPE CONTRACTOR BASED ON PEARLAND REGULATIONS.
- 5- ALL AREAS NOT COVERED WITH CONCRETE SHALL BE SOD WITH (SAN AGUSTIN)
- 6- ALLOW FOR FINISHED GRADE AT EDGE OF WALKS AND CURBS TO BE A MINIMUM OF 1" TO 1 1/2" BELOW TOP OF SIDEWALK AND CURBS AREAS SO GRASS WILL NOT HOLD WATER ON WALK AND SHALL BE CONSISTENT ALONG EDGE.
- 7- LANDSCAPE CONTRACTOR TO COORDINATE AND SCHEDULE HIS WORK WITH OTHER CONTRACTORS WORKING ON THE PROJECT SITE.
- 8- GENERAL CONTRACTOR TO PROTECT ALL EXISTING TREES TO REMAIN.
- 9- ALL LANDSCAPE BEDS SHALL BE RAISED TO PROVIDE ADEQUATE DRAINAGE
- 10 - AFTER PLANTS/TREES HAVE BEEN INSTALLED PROVIDE AND INSTALL MULCH TO ALL LANDSCAPE BEDS.
- 11-TREES ARE TO BE ADDED WITHIN 8' OF ANY UTILITY LINES AND 10' FROM ANY WATER METER OR FIRE HYDRANT.

NOTES

- 1- CONTRACTOR SHALL APPLY FOR AND PROCURE ALL REQUIRED PERMITS TO COMMENCING WORK.
- 2- CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR COMMENCING WORK. CONTACT UTILITIES COMPANIES MINIMUM 48 HOURS PRIOR ANY WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, ETC. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF THESE UTILITIES.
- 3- CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGN WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN FORESEEN IN THE DESIGN. SUCH CONDITIONS SHALL BE BROUGHT UP TO THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL REASONABILITY FOR ANY NECESSARY CHANGES DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- 4- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER SUBCONTRACTORS ON THE JOBSITE AS REQUIRED TO COMPLETE CONSTRUCTION.
- 5- CONTRACTOR TO PROVIDE SAMPLES OF EACH SHRUB AND GROUNDCOVER SPECIES OR NURSERY SOURCE FOR APPROVAL BY LANDSCAPE DESIGNER PRIOR TO INSTALLATION. ALL PLANTS ARE TO BE SPECIMEN QUALITY. FULL POT AND HEAD, SYMMETRICAL FOLIAGE AND BRANCHING STRUCTURE. SHRUBS SHALL BE FULL TO GROUND. PLANT MATERIAL OF THE SAME SPECIES SHALL BE OBTAINED FROM THE SAME SOURCE. MATERIAL SHALL BE SHIPPED DIRECTLY FROM NURSERY AND NOT FROM CONTRACTOR'S HOLDING YARD AFTER AN EXTENDED PERIOD.
- 6- CONTRACTORS SHALL BE RESPONSIBLE FOR QUANTITIES ON PLAN SHOWN BY SYMBOLS. THE PURPOSE IS FOR CONVENIENCE ONLY.

LANDSCAPE CALCULATIONS

SITE AREA: 3.088 A.C. (134,516 SQ.FT.)
15% LANDSCAPING REQUIRED / 36% PROVIDED: 49.199 SF

STREET TREES REQUIRED: 1 INCH PER 15 FEET OF STREET FRONTAGE		3-INCH CALIPER SIZE
FRONTAGE ROAD <u>742' LF.</u>	49'-5"	17 TREES
TOTAL STREET TREES PROVIDED	19 TREES	
SIDE YARD LANDSCAPING: 35% OF THE PARKING LOT LENGTH		
FRONTAGE ROAD <u>716' LF.</u>		251' FT
PROVIDED	401'6" FT	

PARKING LOT TREES REQUIRED: 1 INCH PER 5 PARKING SPACES		3-INCH CALIPER SIZE
76 SPACES / 5	16	16 PKNG. LOT TREES
TOTAL PARKING LOT TREES PROVIDED		16 PKNG. LOT TREES

NUMBER OF TREES AT THE FRONT YARD: 23	
SCREENING SHRUBS REQUIRED: 5 TIMES THE TOTAL CALIPER INCHES OF STREET TREES	
STREET TREES * 74'-2"	371 SHRUBS MIN
TOTAL SHRUBS PROVIDED	478 SHRUBS MIN



10.03.2025 *W. Jim*

SITE LANDSCAPING PLAN

DRAWN BY: CM	CHECKED: SNO
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PROJECT No	SHEET No:
2286.12	C3.2

FLOODPLAIN MITIGATION CALCS:

FILL VOLUME HAS BEEN CALCULATED BASED ON CITY OF PEARLAND DRAINAGE MANUAL SECTION 5.2.3.C.

ALL FILL PLACED IN THE 100-YEAR FLOODPLAIN, AS DESIGNATED ON THE FLOOD INSURANCE RATE MAP SHALL BE MITIGATED. ANY FILL PLACED BETWEEN THE 100-YEAR AND ANY PROPOSED GRADE UP TO THE 500-YEAR WATER SURFACE ELEVATION SHALL BE MITIGATED BY THE REMOVAL OF A LIKE AMOUNT (I.E. 1 CUBIC YARD FILL TO 1 CUBIC YARD REMOVAL) OF COMPENSATING CUT IN THE VICINITY OF THE FILL, WHILE MAINTAINING HYDRAULIC CONNECTIVITY TO THE EXISTING FLOODPLAIN. NO FILL MITIGATION REQUIRED FOR THE FILL PLACED ABOVE 500-YEAR FLOODPLAIN.

FILL VOLUME UNDER THE 500-YR BFE, 42.92, HAS BEEN COMPUTED USING CIVIL 3D SURFACE MODEL SHOWN ON TABLE ON THIS SHEET. FILL VOLUME IS COMPUTED BY COMPARING TWO SURFACES, THE NATURAL GROUND WITH THE PROPOSED TOP OF PAVEMENT ELEVATIONS AND THE 500-YEAR BFE WITH THE PROPOSED TOP OF PAVEMENT ELEVATIONS

FILL VOLUME = $680.47 - 2,292.52 = -1,162.05 \text{ CY.} = -43,525.35 \text{ CF.}$
CUT VOLUME IS NOT REQUIRED.

Name	Bou...	Mid...	Cut Factor	Fill Factor	Style	2d Area(Sq. Ft.)	Cut(adjusted)(Cu. ...	Fill(adjusted)(Cu. ...	Net(adjusted)(Cu. Yd.)	Net Graph
<input checked="" type="checkbox"/> 500YEAR - PROP		1.000	1.000	Standard	76051.30	15.21	2292.52	2277.31<Fill>		
<input checked="" type="checkbox"/> NG-PROP		1.000	1.000	Standard	71832.06	272.92	680.47	407.56<Fill>		

Storm Sewer Calculations

PROJECT: FOREST PARK LANE

JOB NO: 2286.12

SYSTEM: 100 YR STM DESIGN

BY: CM

CHCKD BY: SNO

DESIGN STORM

2-YR

10-YR

100-YR

$$I = b/(d+TC)^e$$

FL=Flowline

$$Tc = D/(60^*V) + Ti$$

HG= Hydraulic Gradient

$$C = 0.60 la + 0.20$$

UP=Upstream

$$Q = C \times I \times A$$

G=Gutter

$$R=Top \text{ of Rim}$$

DA FROM	DA TO	AREA (ACRES)	TOTAL AREA (ACRES)	COMPOSITE RUNOFF COEFF.	SUM OF C * A	TC (MIN.)	INTENSITY (IN/HR)	SUM OF FLOWS (CFS)	REACH LENGTH (FT)	DIAM. OR RISE (IN)	Slope %	Manning's "n"	Design Capacity (CFS)	Design Velocity (ft/s)	Fall Elev. (FT)	FL. Elev. (FT)	FL. Elev. (FT)	Actual Velocity (ft/s)	Friction Loss (ft)	TG ELEV (FT)
A1	A2	0.25	0.25	0.80	0.20	10.60	12.23	2.45	108	12	0.32	0.011	2.39	3.04	0.35	38.01	37.67	3.12	0.37	42.60
A2	A3	0.51	0.76	0.80	0.61	11.57	11.74	7.12	175	15	0.25	0.011	3.83	3.12	0.44	37.67	37.23	5.80	1.52	42.50
A3	A4	0.53	1.28	0.80	1.03	12.24	11.43	11.74	121	18	0.20	0.011	5.57	3.15	0.24	37.23	36.99	6.64	1.08	42.90
A4	OUT	0.15	1.44	0.80	1.15	12.23	11.44	13.15	105	24	0.18	0.011	11.37	3.62	0.19	36.99	36.80	4.19	0.25	43.10
B1	E-INLET 1	0.86	0.86	0.80	0.69	10.61	12.23	8.42	109	15	0.32	0.011	4.33	3.53	0.35	37.65	37.30	6.86	1.32	42.85
C1	EXISTING INLET	0.06	0.06	0.80	0.05	10.00	12.57	0.60												43.40
E-INLET 1	E-INLET 2	0.13	0.99	0.80	0.79	10.61	12.23	9.69												43.02
E-INLET 2	OUT	0.12	1.11	0.80	0.89	10.61	12.23	10.84												42.84
E-INLET 3	EXISTING INLET	0.12	0.12	0.80	0.10	10.00	12.57	1.23												42.14

Storm Sewer Calculations

PROJECT: FOREST PARK LANE

JOB NO: 2286.12

SYSTEM: 2 YR STM DESIGN

BY: CM

CHCKD BY: SNO

DESIGN STORM

2-YR

10-YR

100-YR

$$I = b/(d+TC)^e$$

FL=Flowline

$$Tc = D/(60^*V) + Ti$$

HG= Hydraulic Gradient

$$C = 0.60 la + 0.20$$

UP=Upstream

$$Q = C \times I \times A$$

R=Top of Rim

DA FROM	DA TO	AREA (ACRES)	TOTAL AREA (ACRES)	COMPOSITE RUNOFF COEFF.	SUM OF C * A	TC (MIN.)	INTENSITY (IN/HR)	SUM OF FLOWS (CFS)	REACH LENGTH (FT)	DIAM. OR RISE (IN)	Slope %	Manning's "n"	Design Capacity (CFS)	Design Velocity (ft/s)	Fall Elev. (FT)	FL. Elev. (FT)	FL. Elev. (FT)	Actual Velocity (ft/s)	Friction Loss (ft)	TG ELEV (FT)
A1	A2	0.25	0.25	0.80	0.20	10.60	5.56	1.11	108	12	0.32	0.011	2.39	3.04	0.35	38.01	37.67	1.42	0.08	42.60
A2	A3	0.51	0.76	0.80	0.61	11.57	5.39	3.26	175	15	0.25	0.011	3.83	3.12	0.44	37.67	37.23	2.66	0.32	42.50
A3	A4	0.53	1.28	0.80	1.03	12.24	5.27	5.41	121	18	0.20	0.011	5.57	3.15	0.24	37.23	36.99	3.06	0.23	42.90
A4	OUT	0.15	1.44	0.80	1.15	12.23	5.27	6.06	105	24	0.18	0.011	11.37	3.62	0.19	36.99	36.80	1.93	0.05	43.10
B1	E-INLET 1	0.86	0.86	0.80	0.69	10.61	5.56	3.83	109	15	0.32	0.011	4.33	3.53	0.35	37.65	37.30	3.12	0.27	42.85
C1	EXISTING INLET	0.06	0.06	0.80	0.05	10.00	5.68	0.27												43.40
E-INLET 1	E-INLET 2	0.13	0.99	0.80	0.79	10.61	5.56	4.41												43.02
E-INLET 2	OUT	0.12	1.11	0.80	0.89	10.61	5.56	4.93												42.84
E-INLET 3	EXISTING INLET	0.12	0.12	0.80	0.10	10.00	5.68	0.55												42.14

RSG ENGINEERING

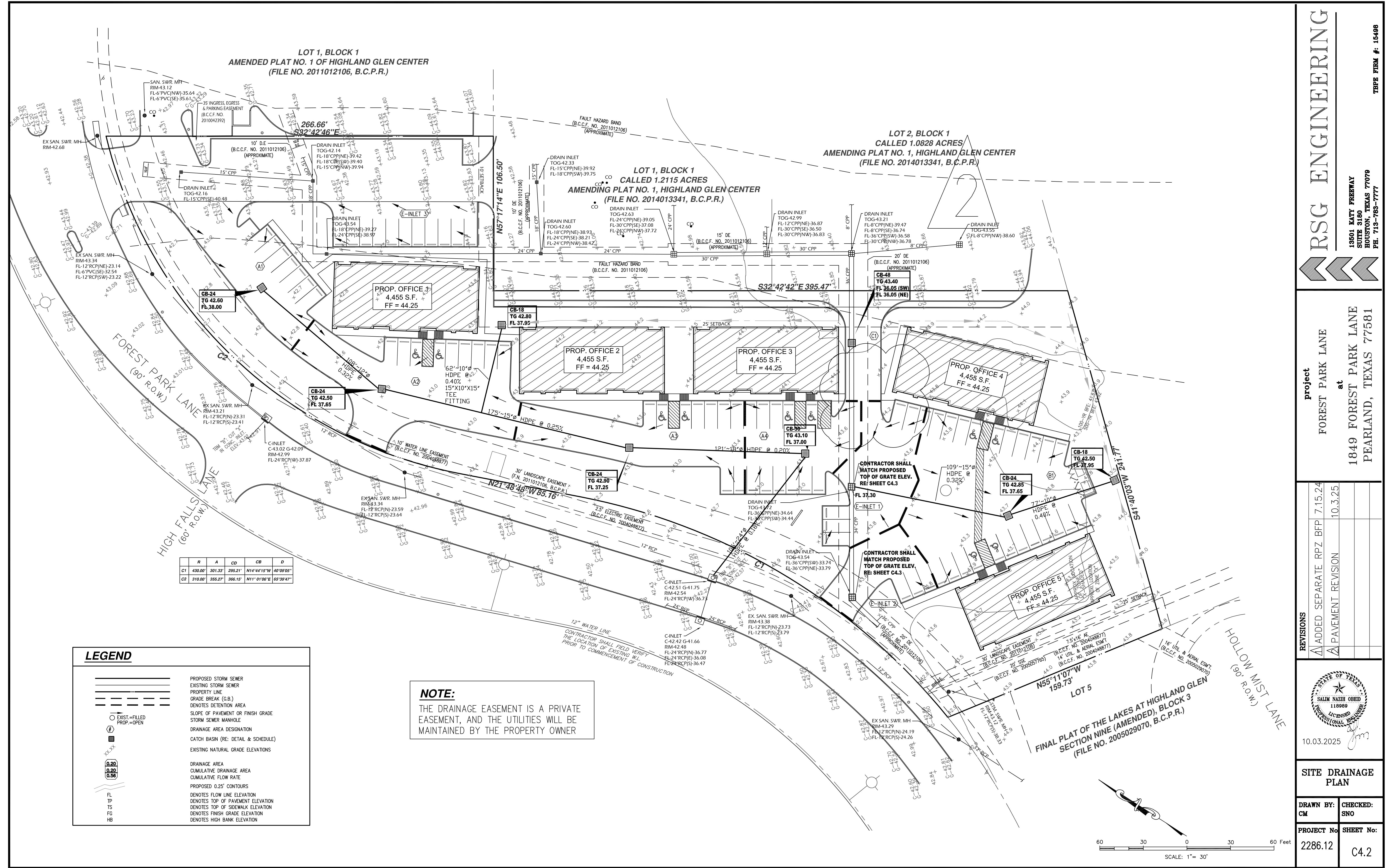
project
FOREST PARK LANE
at
FOREST PARK LANE
PEARLAND, TEXAS 77581

15501 KATY FREEWAY
SUITE 3180
HOUSTON, TEXAS 77079
PH. 713-783-7777

TEPE FIRM #: 1548

REVISIONS
ADDED SEPARATE RPZ BFP 7.15.24
PAVEMENT REVISION 10.3.25
10.03.2025
DRAINAGE CALCULATIONS
DRAWN BY: CM
CHECKED: SNO
PROJECT No: 2286.12
SHEET No: C4.1

STAR OF TEXAS
SALIM NAZIH OBEID
118989
LICENSED PROFESSIONAL ENGINEER
10.03.2025

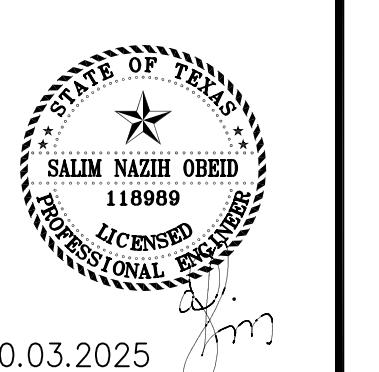


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HOUSTON, TEXAS 77079
PH. 713-783-7777

project
FOREST PARK LANE
at
FOREST PARK LANE
PEARLAND, TEXAS 77581

REVISIONS	ADDED SEPARATE RPZ BFP 7.15.24 PAVEMENT REVISION 10.3.25
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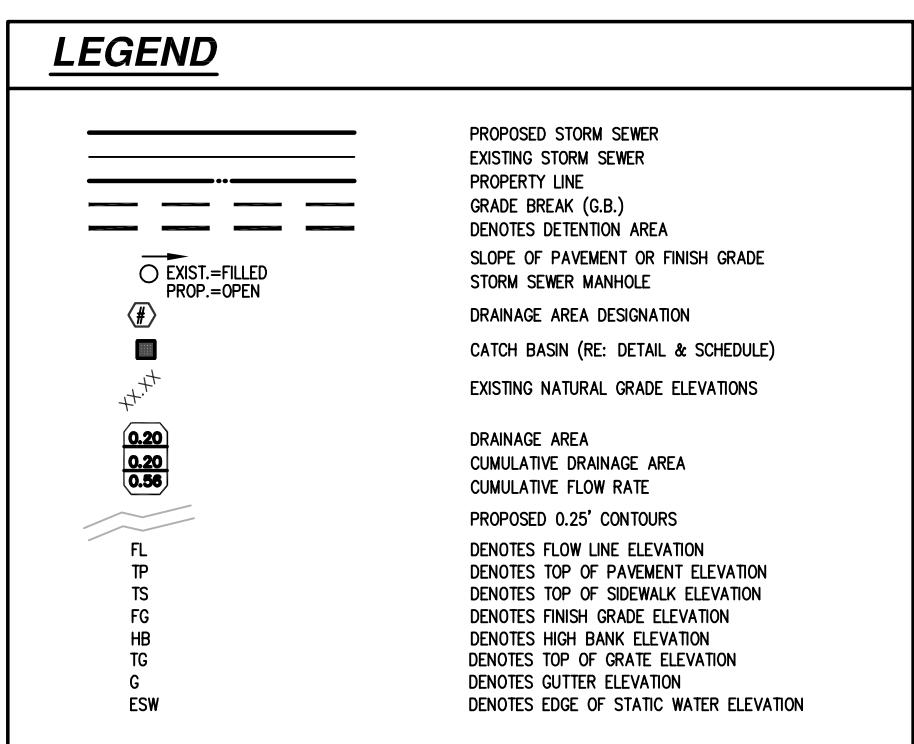
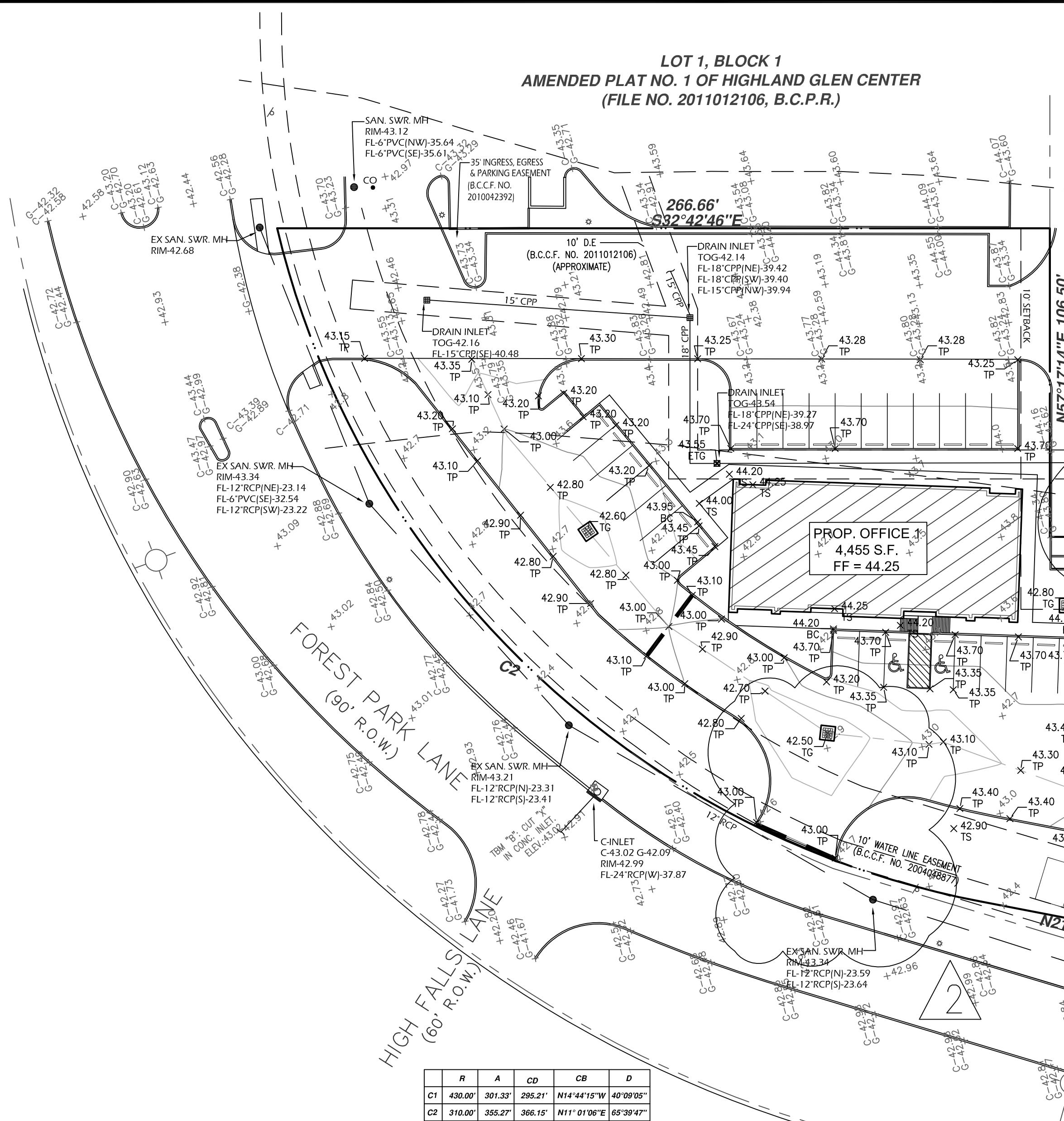
DRAWN BY:	CHECKED:
CM	SNO
2286.12	C4.3

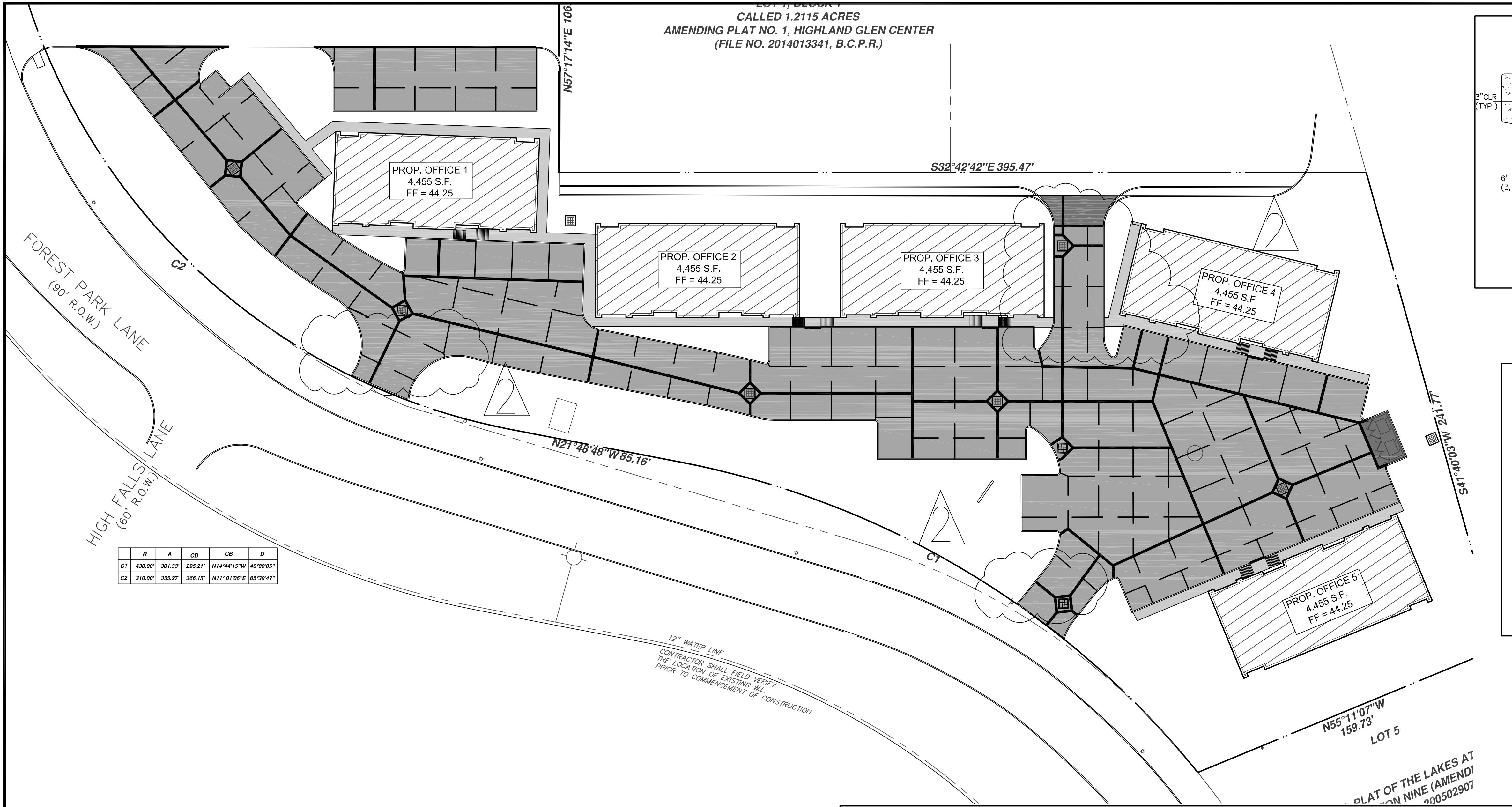
FINAL PLAT OF THE LAKES AT HIGHLAND GLEN
SECTION NINE (AMENDED), BLOCK 3
(FILE NO. 2005029070, B.C.P.R.)

SCALE: 1" = 30'
60 30 0 30 60 Feet

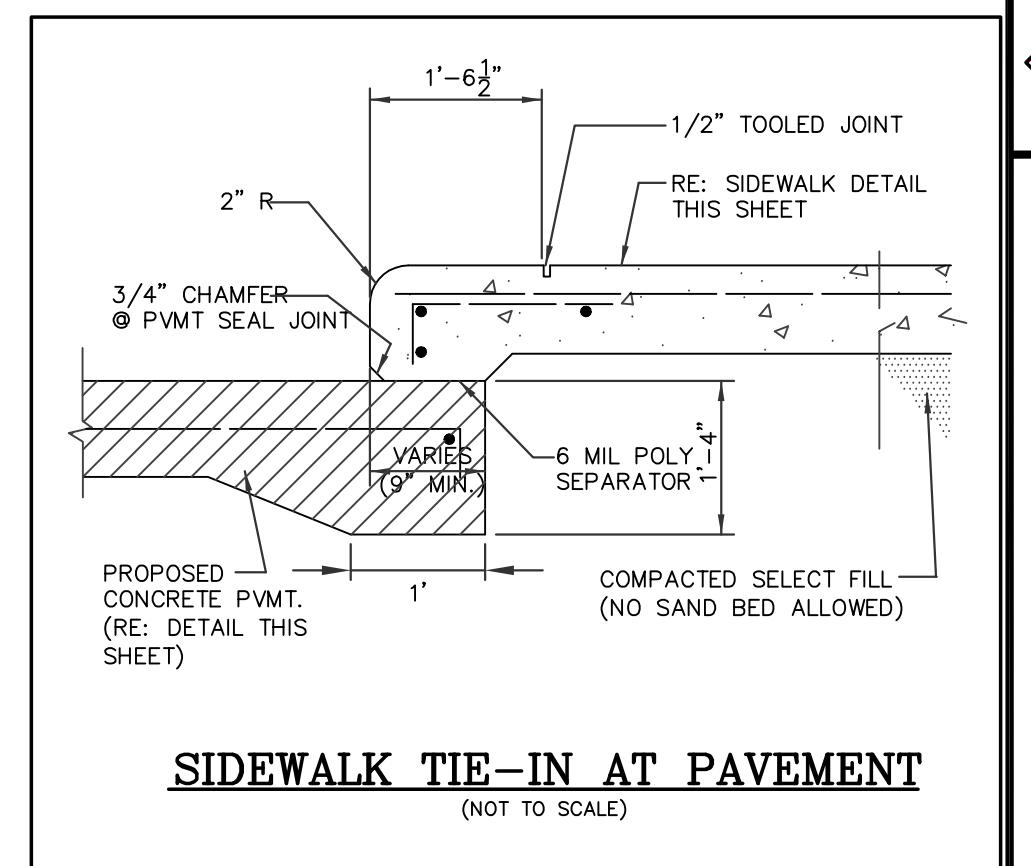
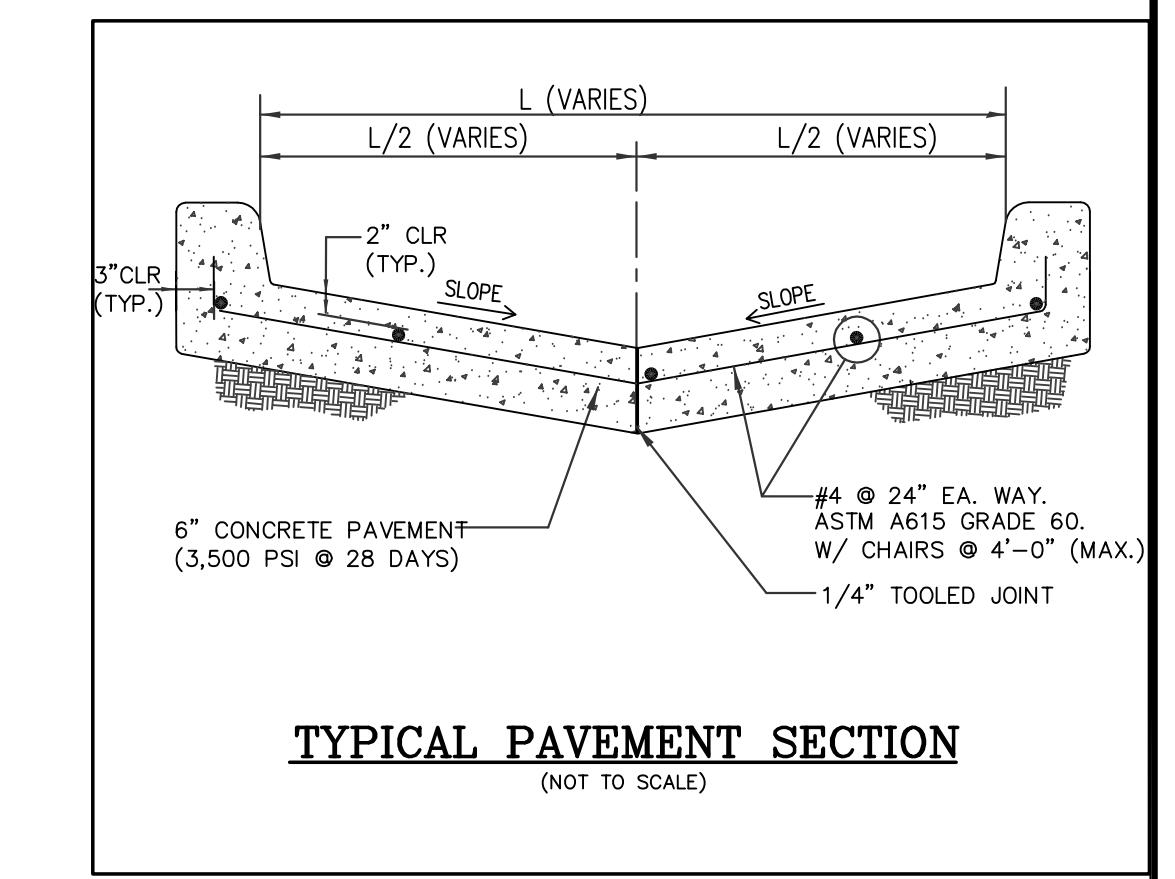
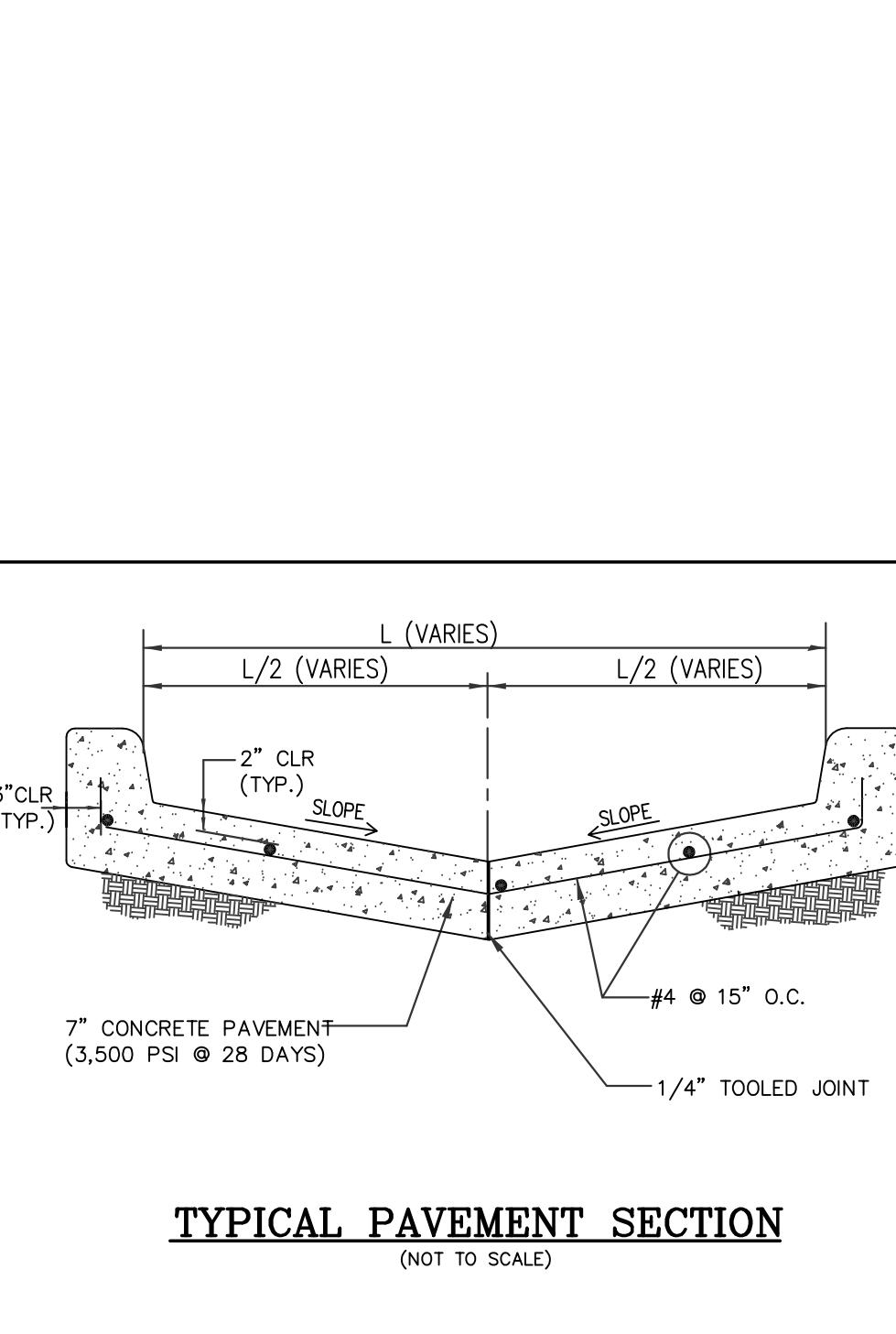
LOT 2, BLOCK 1 CALLED 1.0828 ACRES AMENDING PLAT NO. 1, HIGHLAND GLEN CENTER (FILE NO. 2014013341, B.C.P.R.)

LOT 1, BLOCK 1 CALLED 1.2115 ACRES AMENDING PLAT NO. 1, HIGHLAND GLEN CENTER (FILE NO. 2014013341, B.C.P.R.)

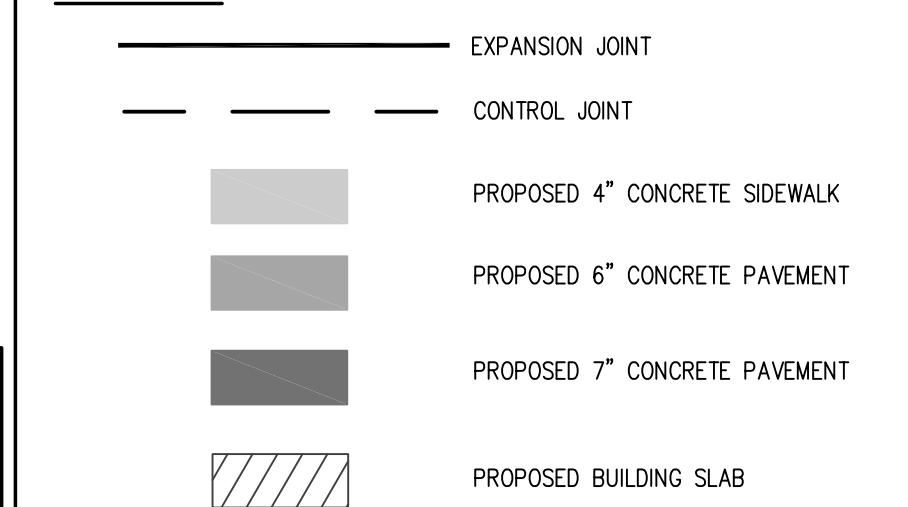




EX-1, BEG-1
CALLED 1.2115 ACRES
AMENDING PLAT NO. 1, HIGHLAND GLEN CENTER
(FILE NO. 2014013341, B.C.P.R.)



LEGEND

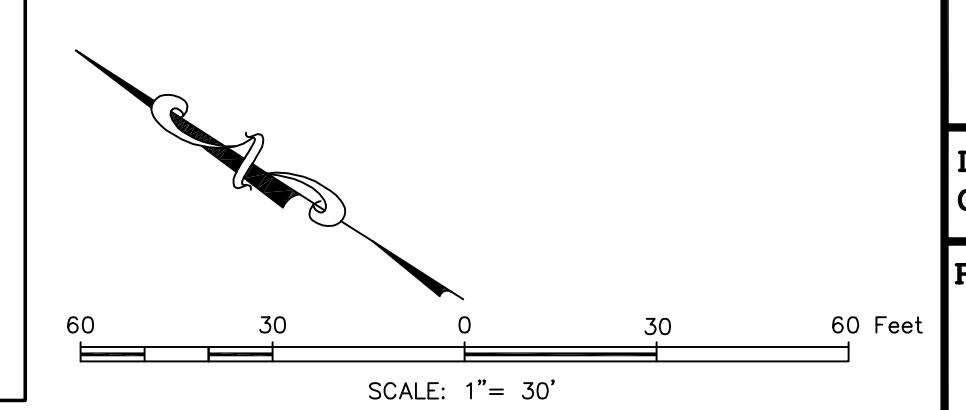


PLAN NOTES:

- JOINTING LAYOUTS INDICATED ARE APPROXIMATE IN NATURE AND ARE INTENDED TO INDICATE THE ENGINEER'S RECOMMENDATION TO THE JOINTING OF THE PROPOSED PAVEMENT. THE JOINTING LAYOUT MAY BE REVISED BY CONTRACTOR TO SUIT HIS VARIED CONSTRUCTION NEEDS WITH THE APPROVAL OF THE ENGINEER AND OWNER.
- EXPANSION JOINTS, CONTROL JOINTS AND CONSTRUCTION JOINTS ADJACENT TO A CURB SHOULD EXTEND INTO THE CURB.
- JOINTS SHOULD TIE RADIALLY TO ALL CURVES. THIS DRAWING MAY NOT INDICATE SUCH RADIAL TIES DUE TO THE SCALE OF THE DRAWING.
- CONTRACTOR SHALL MATCH AND CONTINUE ANY EXPANSION JOINTS ALREADY EXISTING AT LOCATIONS WHERE PROPOSED PAVEMENT CONNECTS TO EXISTING PAVEMENT.
- ALL CONTROL JOINTS MUST BE SAWCUT AND SEALED AS PER SPECIFICATIONS.
- BLOCKOUTS ARE INDICATED LARGER THAN REQUIRED FOR CLARITY.

PAVING & GRADING CONSTRUCTION NOTES

- SUBGRADE PREPARATION:
*STRIP PAVEMENT AREAS TO REMOVE ALL TOP SOIL, DEBRIS AND VEGETATION. REMOVE TREE STUMPS AND ROOTS.
*EXCAVATE SOFT AREAS AND REPLACE WITH SELECT FILL, FREE OF ORGANIC MATTER, WITH PLASTICITY INDEX OF 7 TO 20 AND A MINIMUM LIQUID LIMIT OF 28 PERCENT. FILL SHALL BE PLACED IN SIX(6) TO EIGHT(8) INCH LOOSE LIFTS AND COMPAKTED TO 95% OF STD. PROCTOR (ASTM D698-78) MAX. DRY DENSITY.
*STABILIZE SUBGRADE PER SOILS REPORT OR GEOTECHNICAL ENGINEERS RECOMMENDATION.
*PROF-ROLL TO 95% OF STD. PROCTOR (ASTM D698-78) MAX. DRY DENSITY.
*COMPACT TO 95% OF STD. PROCTOR (ASTM D698-78) MAX. DRY DENSITY.
- PROVIDE 6" THICK CONCRETE PAVEMENT, UNLESS NOTED OTHERWISE ON PLANS.
- CONCRETE COMPRESSIVE STRENGTH = 3,500 PSI (5 SACK) @ 28 DAYS.
- REINFORCEMENT: #4 @ 24" EA. WAY. ASTM A615 GRADE 60.
- REINFORCEMENT SHALL BE SUPPORTED ON METAL OR PLASTIC CHAIRS, SPACED AT A MAXIMUM OF THREE (3) FEET EACH WAY.
- PROVIDE EXPANSION JOINTS @ A MAXIMUM SPACING OF FORTY (40) FEET EACH WAY WITH CONSTRUCTION JOINT @ EVERY TWENTY (20) FEET. FORM JOINTS WITH METAL KEY WAYS AND PROVIDE 3/4" SMOOTH DOWELS x 2'-0" @ 24" O.C., GREASE & WRAP ONE END.
- RECOMMENDED PAVEMENT SLOPE TO DRAIN IS 0.50%, BUT IN NO INSTANCE LESS THAN 0.35% OR GREATER THAN 5% U.N.O. ON PLANS.
- EXCESS SOIL MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR & IS TO BE DISPOSED OFFSITE RESPONSIBLY AT NO EXTRA COST TO OWNER.



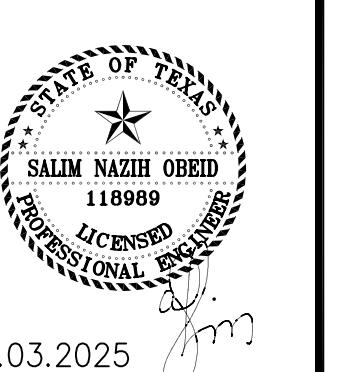
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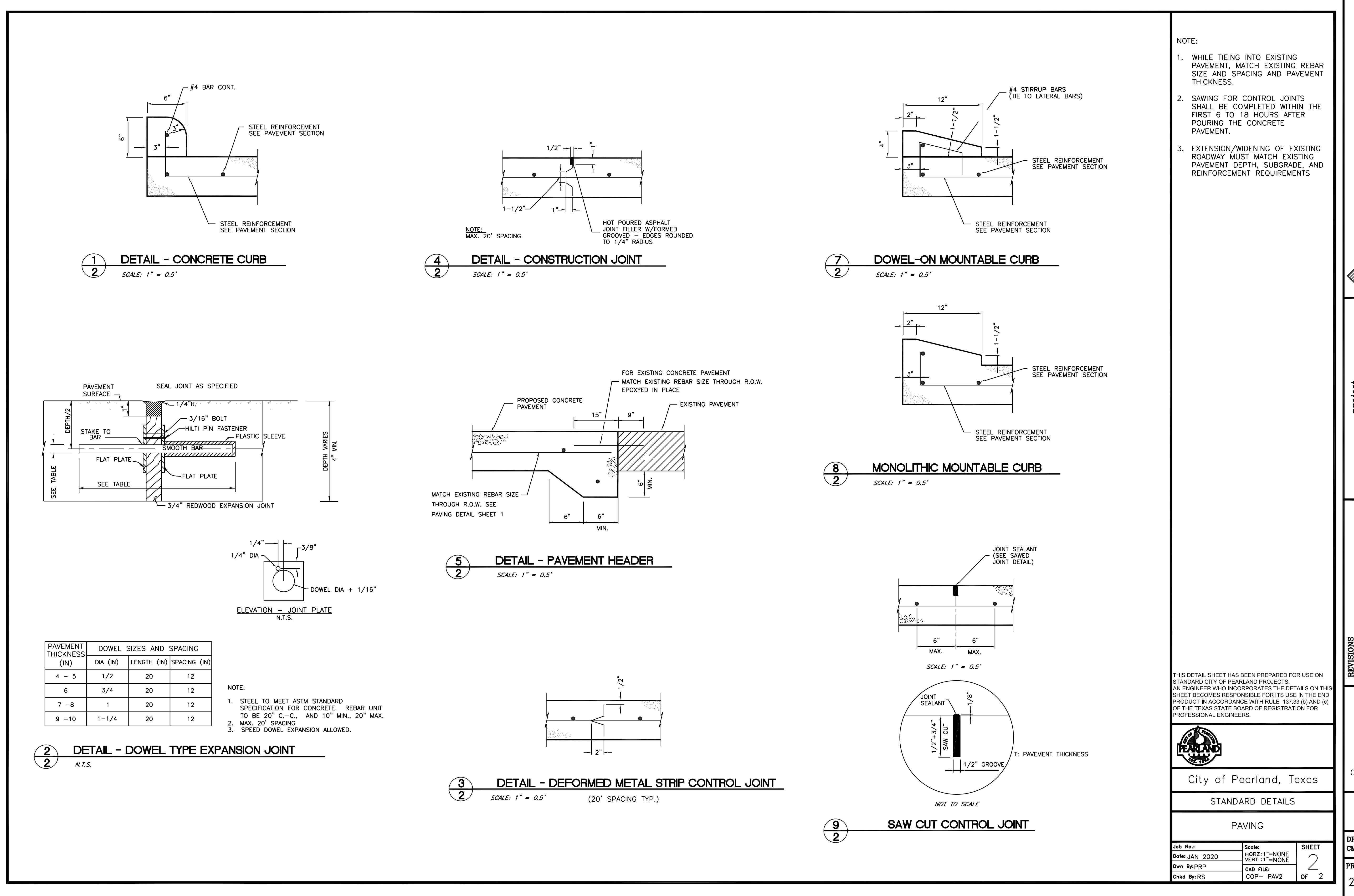
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at
PEARLAND, TEXAS 77581

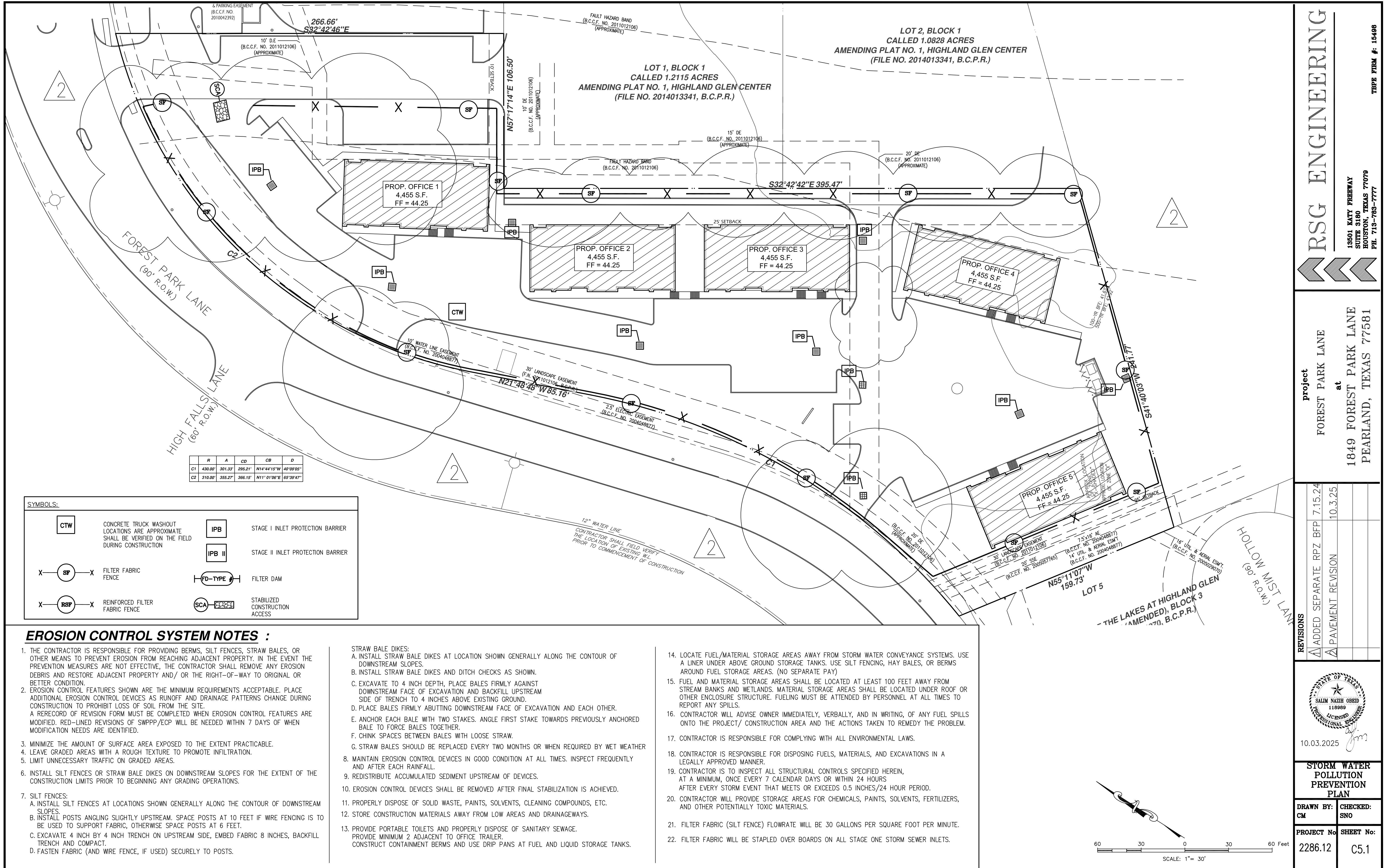
1849 FOREST PARK LANE
PEARLAND, TEXAS 77581

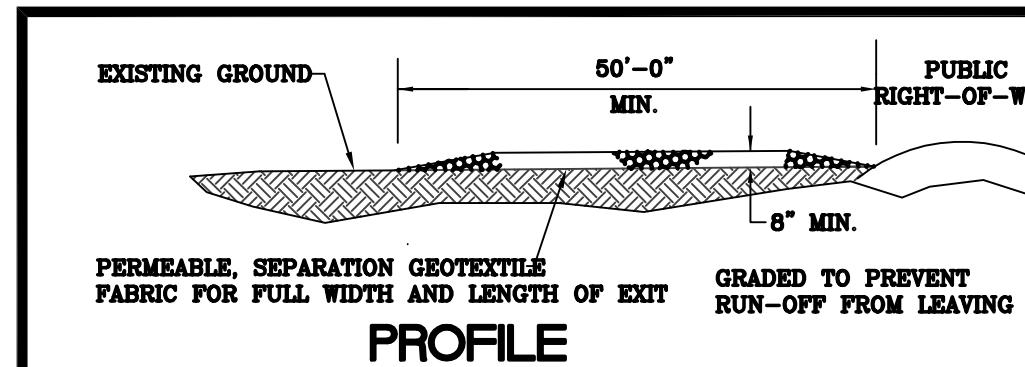
REVISIONS	ADDED SEPARATE RPZ BFP 7.15.24
	PAVEMENT REVISION 10.3.25



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PROJECT No: 2286.12	Sheet No: C4.4





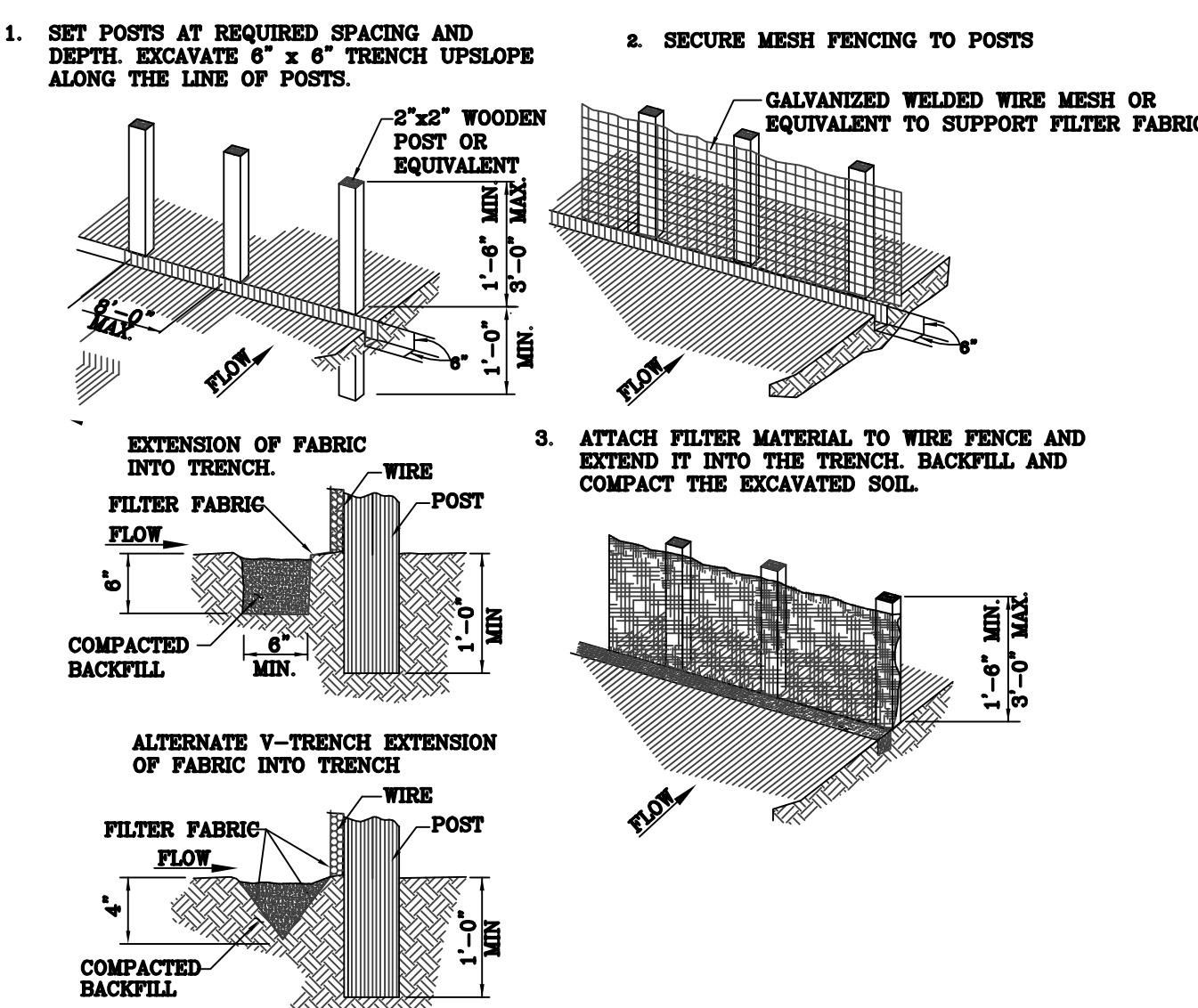
**PROFILE**

PROVIDE APPROPRIATE TRANSITION
BETWEEN STABILIZED CONSTRUCTION
ENTRANCE AND PUBLIC RIGHT-OF-WAY

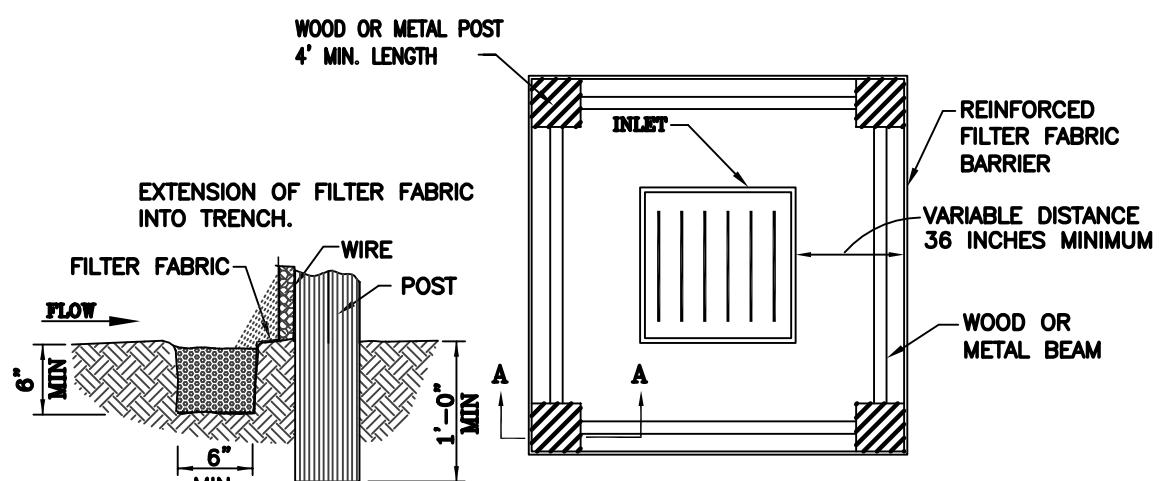
EXISTING GROUND
60'-0" MIN.
PUBLIC
RIGHT-OF-WAY

PLAN VIEW**GENERAL NOTES:**

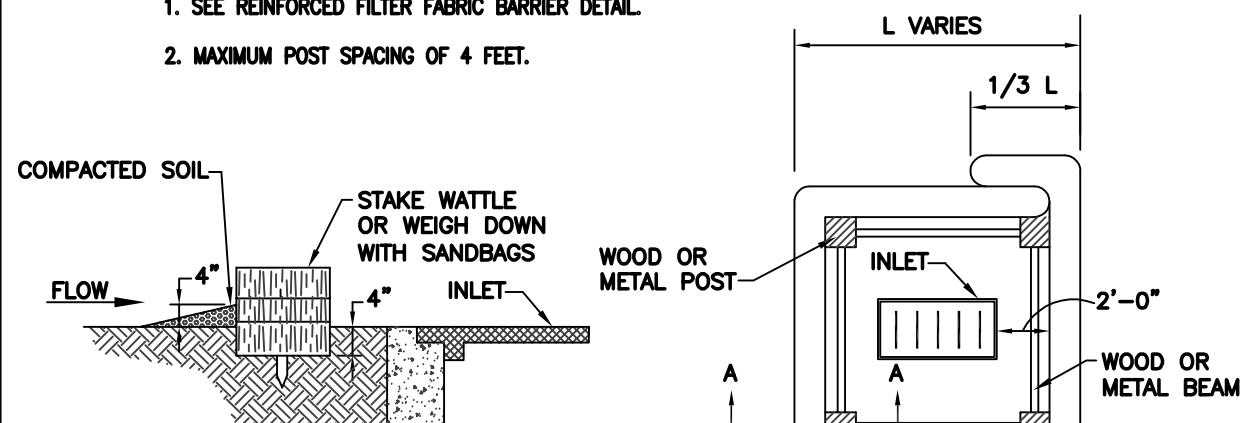
1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. ALTERNATIVE METHODS OF CONSTRUCTION MAY BE UTILIZED WHEN SHOWN ON PLANS OR WHEN APPROVED BY ENGINEER.
8. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.



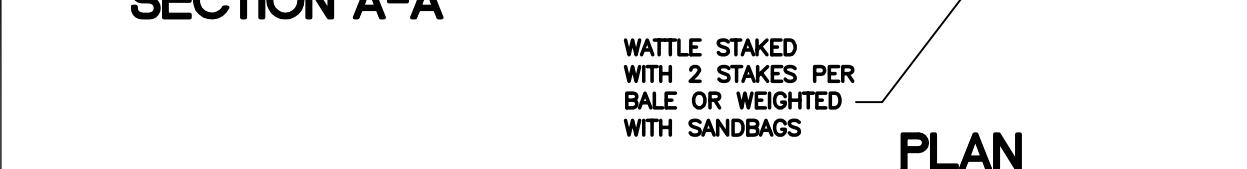
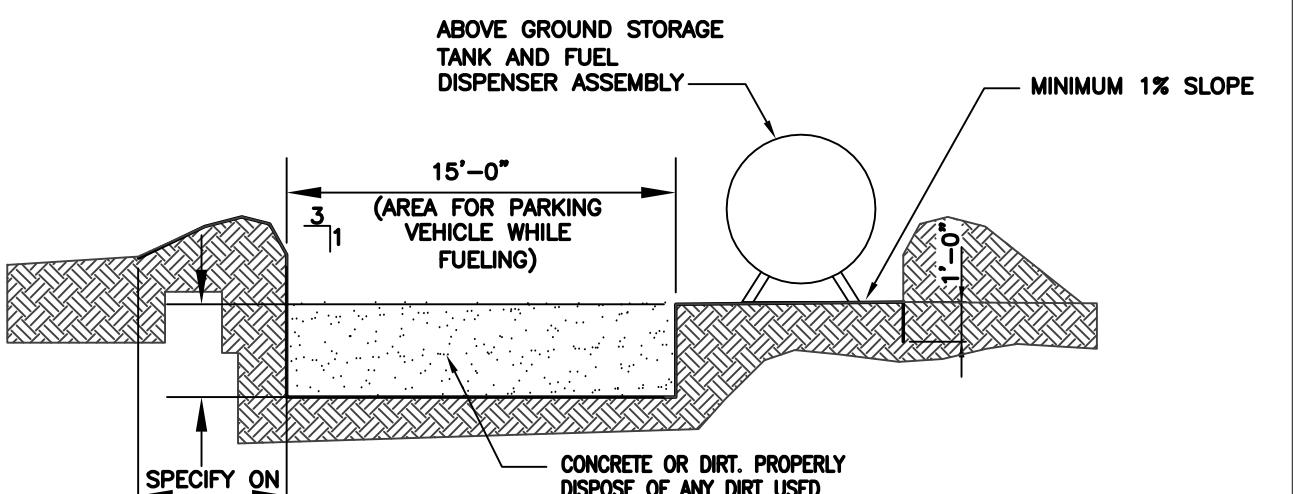
GENERAL NOTES:
 1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
 2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
 3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
 4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE OR DEPTH OR 6 INCHES WHICHEVER IS LESS.

REINFORCED FILTER FABRIC BARRIER**STABILIZED CONSTRUCTION ACCESS/ EXIT****SECTION A-A**

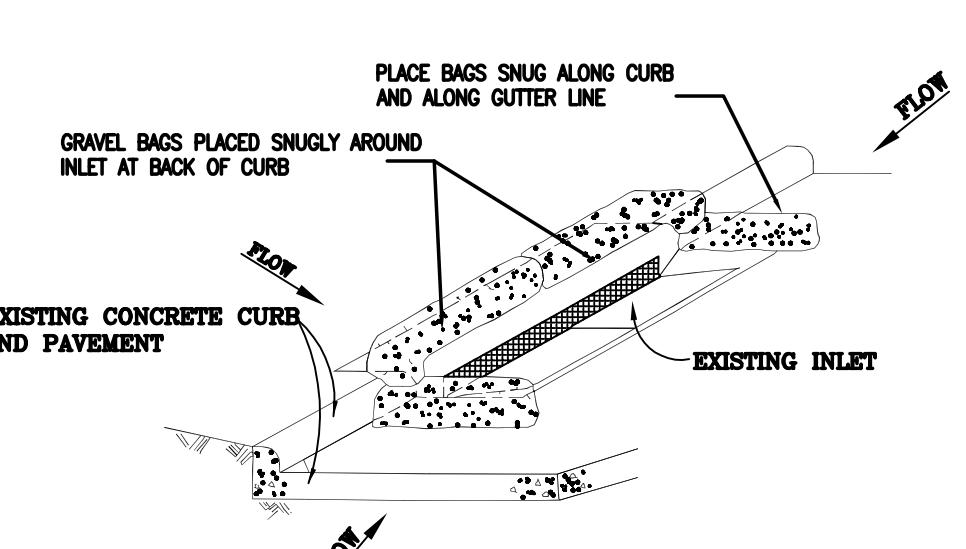
NOTES:
 1. SEE REINFORCED FILTER FABRIC BARRIER DETAIL.
 2. MAXIMUM POST SPACING OF 4 FEET.

**SECTION A-A**

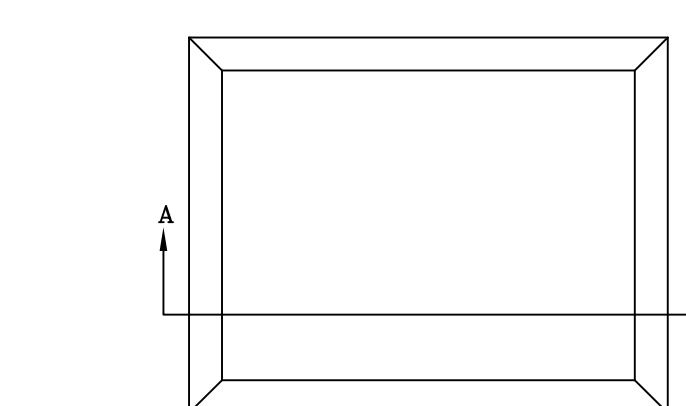
WATTLE STAKED
WITH 2 STAKES PER
BALE OR WEIGHTED
WITH SANDBAGS

**INLET PROTECTION BARRIERS FOR STAGE I INLETS****GENERAL NOTES:**

1. THE SIZE OF THE TANK FOUNDATION AREA DEPENDS ON THE SIZE OF ABOVE GROUND STORAGE TANK AND DISPENSER ASSEMBLY.
2. PROVIDE A MINIMUM OF 1 FOOT CLEARANCE TO THE EDGE OF THE CONCRETE CURB.
3. PROVIDE A MINIMUM SLOPE OF 1% TOWARD THE SUMP PIT.
4. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT PLACE TANK OR SKID DIRECTLY ON LINER.

AREA GROUND TEMP. VEHICLE AND EQUIPMENT FUELING AREA WITH DOUBLE WALL TANK OR EQUIVALENT**INLET PROTECTION BARRIERS FOR STAGE II INLETS****GENERAL NOTES:**

1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTED BY ENGINEER.

**SECTION A-A****PLAN VIEW****GENERAL NOTES:**

1. POST A SIGN READING "CONCRETE WASH OUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT THEIR TRUCKS IN THE PIT AND NO WHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASH OUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASH OUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.

CONCRETE TRUCK WASHOUT AREA

PLEASE READ THE APPLICABLE COP SPECIFICATION
SECTIONS FOR DETAILED INFORMATION.

THIS DETAIL SHEET HAS BEEN PREPARED FOR USE ON
STANDARD CITY OF PEARLAND PROJECTS.
AN ENGINEER WHO INCORPORATES THE DETAILS ON THIS
SHEET BECOMES RESPONSIBLE FOR ITS USE IN THE END
PRODUCT IN ACCORDANCE WITH RULE 137.33 (b) AND (c)
OF THE TEXAS STATE BOARD OF REGISTRATION FOR
PROFESSIONAL ENGINEERS.



12.20.2022

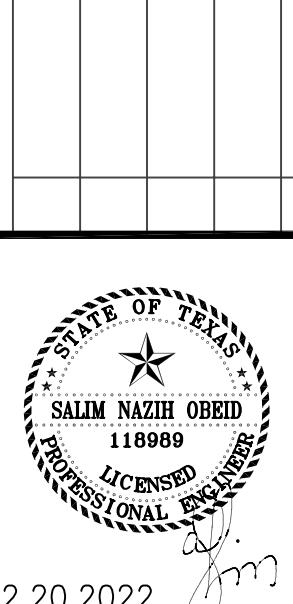
City of Pearland, Texas

STANDARD DETAILS**STORM WATER POLLUTION
PREVENTION PLAN**

Job No.:	Scale:	SHEET
Date: SEPT 2016	HORZ: 1' = NONE VERT: 1' = NONE	1
Drawn By:	CAD FILE:	
Chkd By: R. SHRESTHA	COP-SWPPI	OF 2

DRAWN BY: CM
CHECKED: SNO

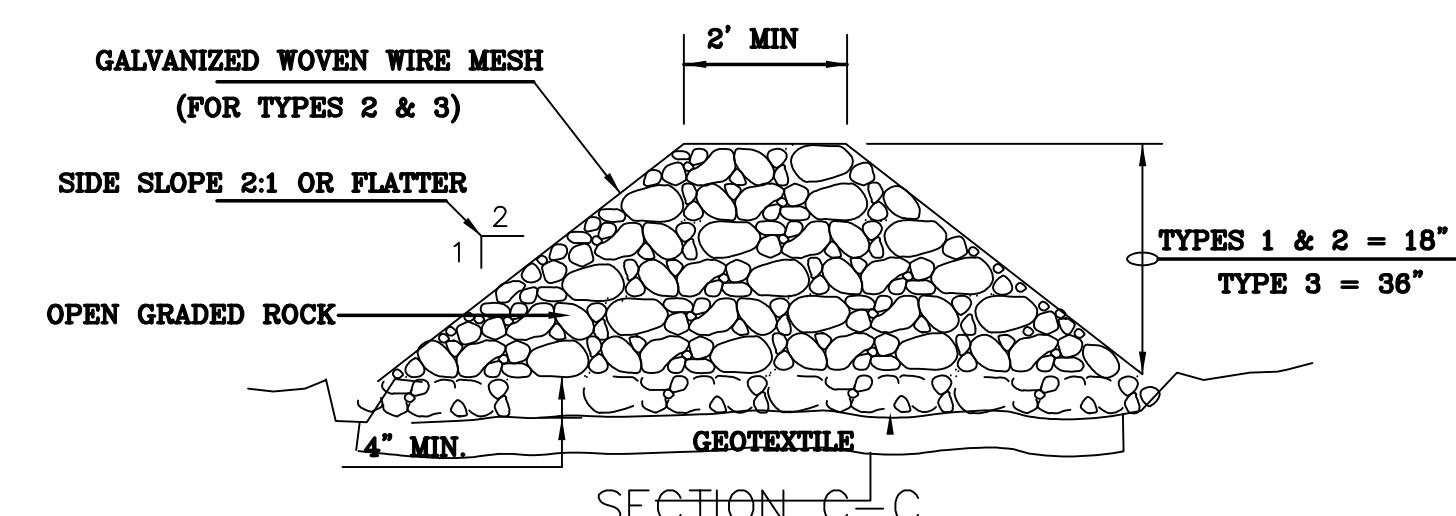
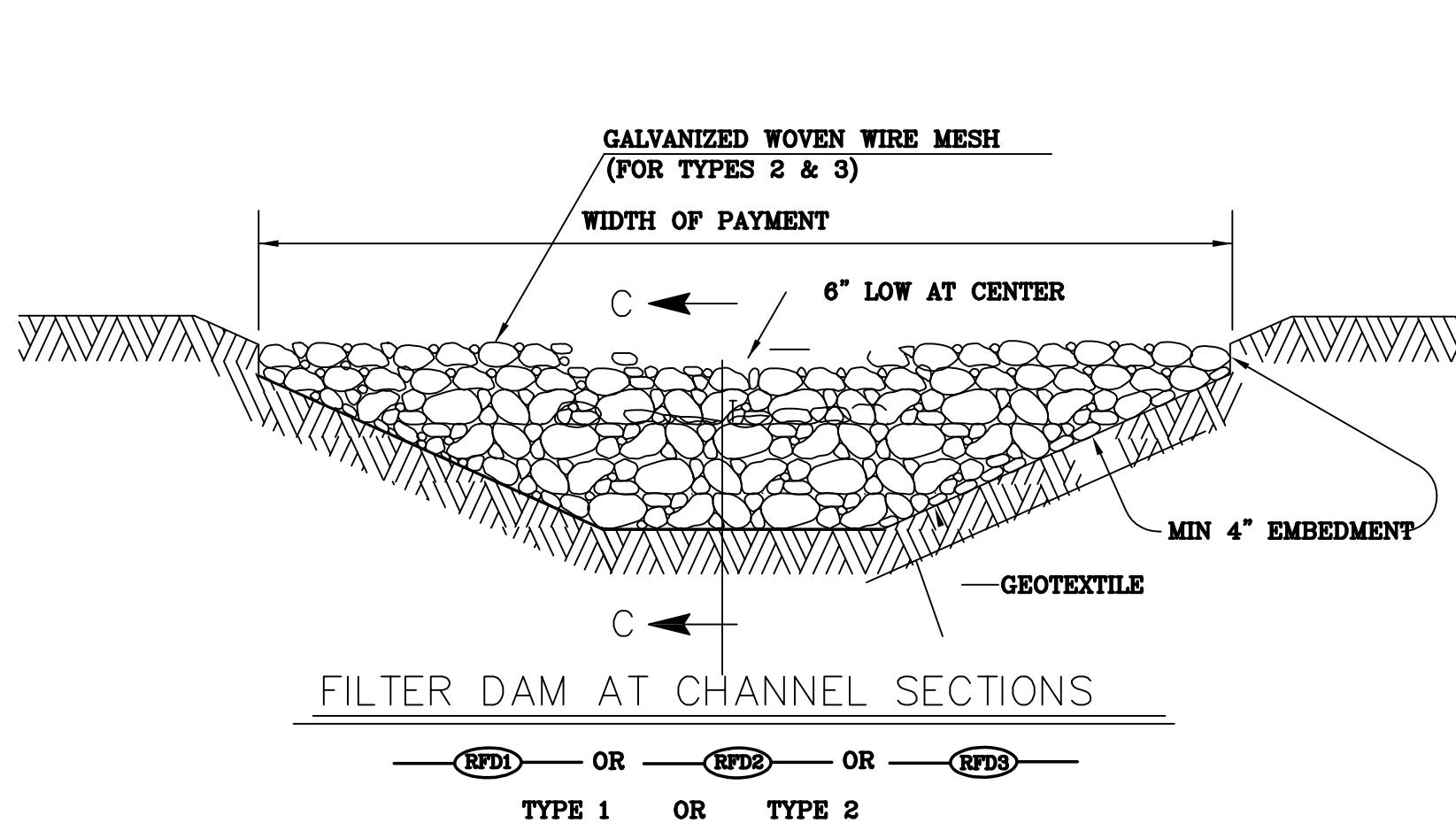
PROJECT No: 2286.12
SHEET No: C5.2



SALIM NAZIH OBEID
118989
LICENSED
PROFESSIONAL
ENGINEER
PEARLAND
12.20.2022

SWPPP DETAILS**STORM WATER POLLUTION
PREVENTION PLAN**

Job No.:	Scale:	SHEET
Date: SEPT 2016	HORZ: 1' = NONE VERT: 1' = NONE	1
Drawn By:	CAD FILE:	
Chkd By: R. SHRESTHA	COP-SWPPI	OF 2



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 OF CROSS SECTIONAL AREA. A 3-YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE.

TYPE 1 (18" HIGH WITH NO WIRE MESH): 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 4 MAY NOT BE USED IN CONCENTRATED HIGH VELOCITY FLOWS (APPROX. 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): TYPE 2 MAY BE USED IN DITCHES AND AT DIKE OR SWALE OUTLETS.

TYPE 3 (36" HIGH WITH WIRE MESH): Type 3 MAY BE USED IN STREAM FLOW AND SHOULD B SECURED TO THE STREAM BED.

ROCK FILTER DAM

NOTE: THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

PROJECT DESCRIPTION

TOTAL PROJECT AREA	
TOTAL AREA TO BE DISTURBED	
WEIGHTED RUNOFF COEFFICIENT AFTER CONSTRUCTION	
NAME OF RECEIVING WATER	

SOIL STABILIZATION PRACTICES

TEMPORARY SEEDING	
PERMANENT PLANTING, SODDING, OR SEEDING	
MULCHING	
SOIL RETENTION BLANKET	
BUFFER ZONE	
PRESERVATION OF NATURAL RESOURCES	

STRUCTURAL PRACTICES

SILT FENCES	
HAY BALES	
ROCK FILTER DAMS	
PIPE SLOPE DRAINS	
PAVED FLUMES	
CHANNEL LINERS	
SEDIMENT BASINS/ DETENTION PONDS	
ROCK BEDDING AT CONSTRUCTION EXIT	
CURBS AND GUTTERS	
VELOCITY CONTROL DEVICES	
EROSION CONTROL LOGS	

OFFSITE VEHICLE TRACKING

HAUL ROADS DAMPENED FOR DUST CONTROL	
LOADED HAUL TRUCKS TO BE COVERED WITH TARPOLIN	
EXCESS DIRT ON ROAD REMOVED DAILY	
STABILIZED CONSTRUCTION ENTRANCE	

MAINTENANCE

ALL EROSION AND SEDIMENT CONTROL WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIRS NECESSARY IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREA ADJACENT TO CREEKS AND DRAINAGE WAYS SHALL HAVE PRIORITY FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.

INSPECTION

ALL INSPECTION WILL BE PERFORMED BY A XXX INSPECTOR EVERY SEVEN DAYS OR TWO WEEKS, AS WELL AS AFTER EVERY HALF-INCH OR MORE OF RAIN (AS RECOMMENDED ON A NON-FREEZING RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE). AN INSPECTION AND MAINTENANCE REPORT SHOULD BE MADE FOR EACH INSPECTION. BASED ON THE INSPECTION RESULTS, THE CONTROLS SHALL BE REVISED ACCORDING TO THE INSPECTION REPORT.

WASTE MATERIALS

THE DUMPSTER USED TO STORE ALL WASTE MATERIAL WILL MEET ALL STATE AND THE CITY OF PEARLAND SOLID WASTE ORDINANCE. ALL TRASH AND CONSTRUCTION DEBRIS WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING)

IN THE EVENT OF A SPILL WHICH MAY BE CONSIDERED HAZARDOUS, THE CITY OF PEARLAND FIRE DEPARTMENT SHALL BE CONTACTED IMMEDIATELY AT 281-997-4650.

SANITARY WASTE

CONTRACTOR SHALL PROVE SANITARY WASTE FACILITIES IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS AND SPACING. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR OR FIRM AS NEEDED OR AS REQUIRED BY LOCAL REGULATIONS.

ADDITIONAL

DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE SEDIMENT TAHT MAY ENTER RECEIVING WATERWAYS.

CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER WHICH MINIMIZES THE RUNOFF OF ALL POLLUTANTS.

ALL WATERWAYS SHALL BE CLEARED AS SOON AS PRACTICAL OF TEMPORARY EMBANKMENTS, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING, DEBRIS, AND OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT PART OF THE FINISHED OWRK.

THIS DETAIL SHEET HAS BEEN PREPARED FOR USE ON STANDARD CITY OF PEARLAND PROJECTS. AN ENGINEER WHO INCORPORATES THE DETAILS ON THIS SHEET IS CONSIDERED TO HAVE AGREED TO THE END PRODUCT IN ACCORDANCE WITH RULE 137.33 (b) AND (c) OF THE TEXAS STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS.



City of Pearland, Texas

STANDARD DETAILS

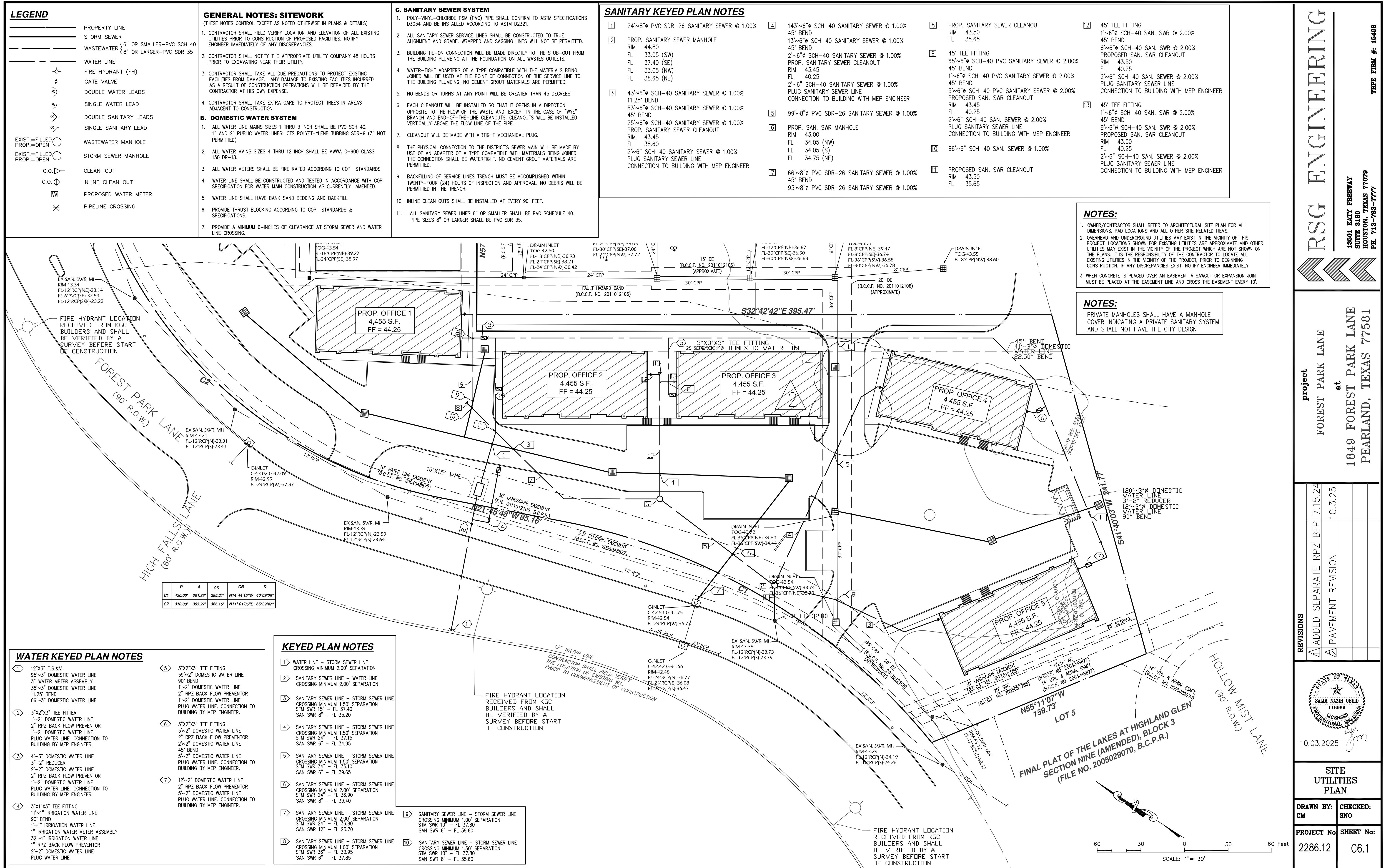
STORM WATER POLLUTION PREVENTION PLAN

Job No.:	Scale:	SHEET
Date: SEPT 2016	HDR211= NONE	
Dwn By:	VER711= NONE	
Chkd By: R. SHRESTHA	CAD FILE: CDP-SWPPL2	2 OF 2

DRAWN BY: CM	CHECKED: SNO
PROJECT No: 2286.12	SHEET No: C5.3

SWPPP DETAILS

12.20.2022	
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GENERAL CONSTRUCTION NOTES:

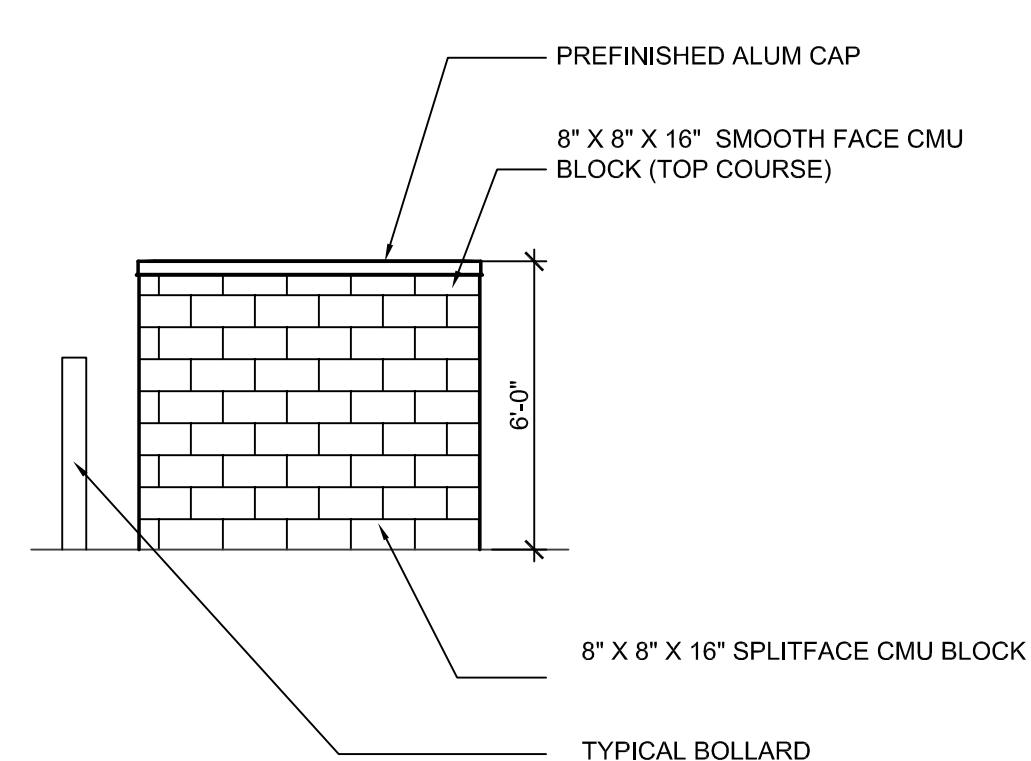
- UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATERLINE AND APPURTENANCES, WASTEWATER, STORM WATER LINES, PAVING, SIDEWALKS AND TRAFFIC CONTROL DEVICES. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF PEARLAND STANDARD AT NO ADDITIONAL COST.
- CONTRACTOR SHALL ADEQUATELY PROTECT EXISTING STRUCTURES, UTILITIES, TREES, SHRUBS, AND PERMANENT OBJECTS WHICH ARE NOT SCHEDULED TO BE REMOVED AS A PART OF THIS PROJECT. PRIOR TO THE REMOVAL OF ANY TREES A CLEAR AND GRUB PERMIT MUST BE OBTAINED FROM THE URBAN FORESTER 281.652.1983.
- THE CONTRACTOR SHALL NOT DUMP ANY DIRT OR OTHER MATERIALS ONTO A PROPERTY OUTSIDE OF THE BOUNDARY OF THE PERMITTED PROJECT AND WITHIN THE CITY OF PEARLAND CITY LIMITS WITHOUT A VALID DEVELOPMENT/GRADING PERMIT. IF SUCH DUMPING OCCURS WITHOUT A VALID PERMIT, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE REMOVAL OF ANY DISCARDED DIRT OR OTHER MATERIALS TO AN APPROVED LOCATION AT THE CONTRACTOR EXPENSE.
- ON SITE MECHANICAL SWEEPERS (ROAD BROOM) IS REQUIRED FOR THE PROJECTS HAULING DIRT TO AND FROM THE SITE IN EXCESS OF 70 CUBIC YARDS PER DAY.
- ALL PAVEMENT TO BE REMOVED, INCLUDING CONCRETE DRIVEWAYS AND SIDEWALKS, THE PAVEMENT SHALL BE SAWCUT TO FULL DEPTH PRIOR TO REMOVAL.
- ALL WORK WITHIN CITY OF PEARLAND RIGHTS-OF-WAY OR PUBLIC EASEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF PEARLAND SPECIFICATIONS, ACCEPTED STANDARDS AND APPROVED DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND UNDERSTANDING ALL RELEVANT INFORMATION PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT THE CITY OF PEARLAND CHIEF ENGINEERING INSPECTOR AT 281.651.2314 TO EITHER SCHEDULE OR NOTIFY HIM OF A PREVIOUSLY SCHEDULED PRE-CONSTRUCTION MEETING. THE PRE-CONSTRUCTION MEETING SHALL BE HELD A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DAMAGE TO DITCH OR STRUCTURES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION OR BETTER.
- CONSTRUCTION SHALL COMPLY WITH LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION. ALL WORKS, SERVICES, AND LABOR SHALL CONFORM TO THE RULES AND REGULATIONS OF THE CITY OF PEARLAND.
- THE CONTRACTOR SHALL NOTIFY THE LOCAL AUTHORITY OR GOVERNING AGENCY OF THE BEGINNING DATE OF CONSTRUCTION AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT NO WORK IS DONE WITHOUT THE PROPER INSPECTIONS AND PERMITS BY THE LOCAL AUTHORITY OR GOVERNING AGENCY.
- THE CONTRACTOR SHALL VERIFY THE DIMENSIONS SHOWN ON THE CONSTRUCTION PLANS WITH THOSE MEASURED IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS UNLESS NOTIFIED TO OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIALS AND EQUIPMENT STORED ON THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND GOOD WORKMANLIKE MANNER TO PREVENT INJURIES, DURING AND AFTER WORKING HOURS, UNTIL PROJECT COMPLETION.
- AT THE END OF ALL CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL RESTORE THE EXISTING FACILITIES, IE THE PROPERTY, EQUAL TO OR GREATER THAN EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. ALL AREAS DISTURBED ALONG THE SITE SHALL BE HYDROMULCHED SEEDED IN ACCORDANCE WITH SPECIFICATION UNLESS OTHERWISE NOTED.
- MINIMIZE AND CONTROL SPREADING OF DUST AND FLYING PARTICLES, AS REQUIRED BY GOVERNING REGULATIONS. USE TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS SUCH AS WATERING TO PREVENT THE SPREAD OF DUST, DIRT, AND DEBRIS.
- ALL WORKS SHALL BE CONDUCTED WITHIN THE RIGHT-OF-WAY AND/ OR EASEMENTS SHOWN UNLESS OTHERWISE APPROVED BY THE OWNER OR ENGINEER.
- NO EXCAVATION AREA SHALL BE LEFT OPEN DURING NON-WORKING HOURS. ALL UNINTENDED EXCAVATION OVER 2 FEET IN DEPTH SHALL BE PROTECTED BY BRIGHT ORANGE SAFETY FENCING DURING NORMAL WORKING HOURS AND COVERED SECURELY IF LEFT OPEN AFTER HOURS.
- THE CONTRACTOR IS NOT AUTHORIZED TO OPERATE WATER/SANITARY INFRASTRUCTURE UTILITIES OWNED OR OPERATED BY THE CITY OF PEARLAND. CONTRACTOR SHALL CONTACT THE CITY OF PEARLAND PUBLIC WORKS DEPARTMENT TO REQUEST CITY OF PEARLAND PUBLIC WORKS AUTHORIZED PERSONNEL TO PERFORM ALL UTILITY OPERATIONS.
- THE CONTRACTOR SHALL NOT OBTAIN WATER FROM THE CITY OF PEARLAND FIRE HYDRANTS OR OTHER SOURCES FROM THE DISTRIBUTION SYSTEM WITHOUT PRIOR PERMISSION. CONTRACTOR MAY OBTAIN WATER FROM THE CITY OF PEARLAND PUBLIC WORKS SERVICE CENTER AT THE LOCATION DESIGNATED BY THE OWNER.
- CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL AND COMMERCIAL PROPERTIES ADJACENT TO THE WORK AREA AT ALL TIMES.
- THE CONTRACTOR SHALL OBTAIN APPROVAL ON INGRESS/EGRESS ROUTES, HAULING ROUTES, ETC. FROM THE CITY AND BRAZORIA COUNTY.
- THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING DARKNESS AND PERIOD OF INACTIVITY, WHEN IN AN AREA DIRECT PUBLIC ACCESS, AND AS DIRECTED BY THE CITY.
- THE LOADING AND UNLOADING OF ALL PIPE, VALVES, FIRE HYDRANTS, MANHOLES AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR THE MATERIALS AND EQUIPMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHIPPING AND STORAGE OF ALL MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE SUCH MATERIAL AT THE POINT OF DELIVERY AND TO REJECT ALL DEFECTIVE MATERIAL. ANY DEFECTIVE MATERIAL INCORPORATED INTO THE WORK SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. THERE SHALL BE NO PAYMENT MADE FOR STORED MATERIAL.
- SEE THE STORM WATER POLLUTION PREVENTION PLAN FOR ADDITIONAL ENVIRONMENTAL NOTES AND DETAILS.
- IRON RODS DISTURBED DURING CONSTRUCTION ARE TO BE REPLACED BY A REGISTERED PROFESSIONAL LAND SURVEYOR FOR THE ORIGINAL PROPERTY OWNER AT NO SEPARATE PAY.
- MOWING, MAINTENANCE AND CLEAN-UP IS REQUIRED FOR THE PROJECT LIMITS AND DURATION, REGARDLESS OF THE CONTRACTOR'S SCOPE OF ACTIVITIES WITH THE PROJECT.

STORM AND DRAINAGE

- ALL DETENTION AND PERIMETER DRAINAGE SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION OF OTHER IMPROVEMENTS.
- STORM SEWER SYSTEM (MANHOLES, INLETS, STORM SEWER, BEDDING AND BACKFILL ETC.) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF PEARLAND STANDARD DETAIL AND IN COMPLIANCE WITH THE ENGINEERING DESIGN CRITERIA MANUAL.
- THE FINAL ELEVATION OF STORM SEWER MANHOLE RIMS SHALL BE AT FINISHED GRADE. PLAN RIM ELEVATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO REPRESENT FINISHED GRADES.
- EXISTING STORM MANHOLES SHALL BE ADJUSTED TO INCLUDE NEW CITY OF PEARLAND RING AND COVERS.
- ALL CHANNEL OR SWALE SIDE SLOPES AND/OR OTHER AREAS REQUIRING SEEDING AS DETERMINED BY THE ENGINEER, TO BE HYDROMULCH SEDED.

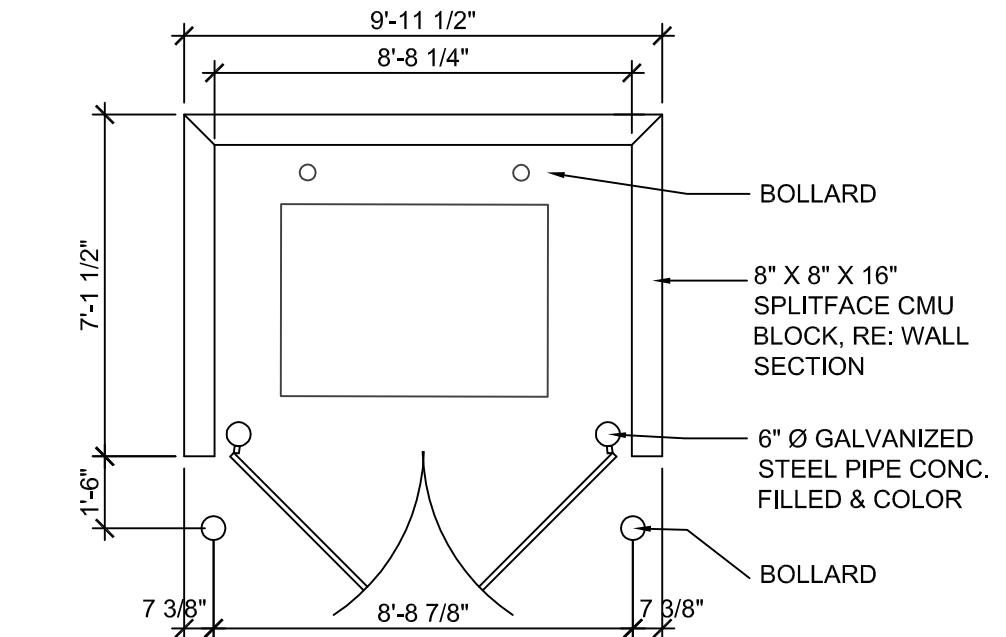
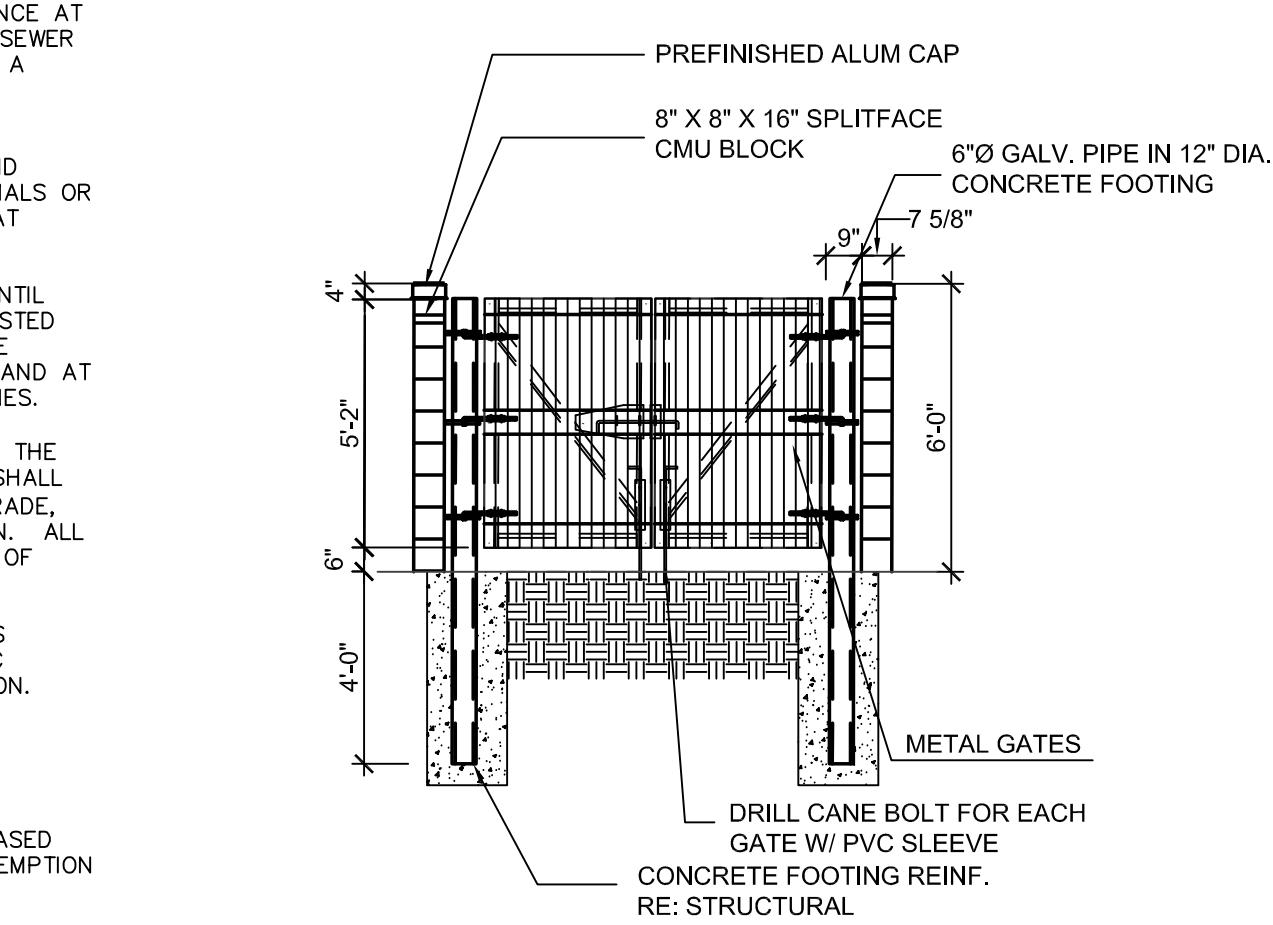
SANITARY SEWER

- SANITARY SEWERS SHALL BE BUILT ACCORDING TO THE CITY OF PEARLAND DESIGN STANDARDS AS CURRENTLY AMENDED AND THE T.C.E.Q. RULES AND DESIGN CRITERIA.
- ALL SANITARY MANHOLES MUST BE STANDARD TYPE (PRECAST) AND BACKFILLED WITH CEMENT STABILIZED SAND IN ACCORDANCE WITH CITY OF PEARLAND STANDARD DETAIL SHEET 3 OF 3. BRICK MANHOLES ARE NOT ALLOWED. ALL SANITARY MANHOLES SHALL INCLUDE STAINLESS STEEL INFLOW PROTECTORS.
- ALL SANITARY SEWER PIPES SHALL BE BEDDED AND BACKFILLED PER CITY OF PEARLAND STANDARD DETAILS, AS APPROPRIATE AND SEPARATE DAY. THE ENGINEER AND CITY OF PEARLAND SHALL BE NOTIFIED IMMEDIATELY IF WET SANDS ARE ENCOUNTERED. BACKFILL UNDER OR WITHIN 1-FOOT OF EXISTING, PROPOSED OR FUTURE PAVEMENT SHALL BE CEMENT STABILIZED SAND UP TO 1' BELOW THE BOTTOM OF THE PAVING SUBGRADE. TEST REPORTS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF PAVEMENT. THE COST OF BEDDING AND BACKFILL IS TO BE INCLUDED IN THE UNIT PRICE OF WATER LINE.
- CONTRACTOR SHALL PROVIDE FOR A MINIMUM OF 6 INCHES CLEARANCE AT THE STORM SEWER AND WATERLINE CROSSINGS AND THE SANITARY SEWER AND WATERLINE CROSSINGS. THE WATERLINE SHALL BE LOCATED AT A HIGHER LEVEL THAN THE SEWER WHENEVER POSSIBLE.
- NECESSARY PRECAUTIONS MUST BE TAKEN DURING WATER LINE CONSTRUCTION. PRECAUTIONS INCLUDE KEEPING THE PIPE CLEAN AND EFFECTIVELY COVERING OPEN PIPE ENDS TO EXCLUDE INSECTS, ANIMALS OR OTHER SOURCES OF CONTAMINATION FROM UNFINISHED PIPE LINES AT TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS.
- NO CONNECTIONS SHALL BE MADE TO THE EXISTING SANITARY SEWER LINES UNTIL ALL PROPOSED SEWER LINES HAVE BEEN THOROUGHLY CLEANED, TESTED AND APPROVED BY THE ENGINEER. THE ENGINEER AND THE CITY SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE CONTRACTOR CONNECTING TO ANY EXISTING SEWER LINES.
- THE CONTRACTOR SHALL CONTACT THE CITY OF PEARLAND CHIEF ENGINEERING INSPECTOR AT 281.651.2314 AT LEAST 24 HOURS PRIOR TO PRESSURE AND DEFLECTION TESTS ON ALL SANITARY LINES.
- ALL SANITARY SEWERS SHALL BE TESTED PER TCEQ GUIDELINES.
- DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE AND SEMI-RIGID PIPE, EXCEPT SERVICE LEADS. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST FOR 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. THE TEST IS TO BE RUN USING A MANDREL HAVING AN OUTSIDE DIAMETER EQUAL TO 95% OF THE AVERAGE INSIDE DIAMETER OF THE PIPE. THE MANDREL SHALL HAVE A MINIMUM OF 9 RUNNERS, WITH THE CONTACT LENGTH OF EACH RUNNER EQUAL TO OR GREATER THAN THE PIPE'S NOMINAL DIAMETER. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULING DEVICES.
- ALL SANITARY SEWER MANHOLE RIMS SHALL BE SET 3-INCHES ABOVE FINISHED GRADE WITHIN STREET R.O.W., OR WITHIN EASEMENTS. CLEAN FILL SHALL BE ADDED AND SLOPED AWAY FROM THE RIM FOR SURFACE WATER DRAINAGE. PLAN RIM ELEVATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO REPRESENT FINISHED GRADES. COSTS FOR ALL ADJUSTMENTS, INCLUDING RECASTING, SEPARATE SEWER AND PRECAST ADJUSTMENT RINGS, ARE TO BE INCLUDED IN THE UNIT PRICE FOR SANITARY SEWER MANHOLES. BRICKS ARE NOT ALLOWED. ALL EXISTING/PROPOSED MANHOLE RIMS WITHIN THE SIDEWALK SHOULD BE FLUSH WITH GRADE.
- SEALED MANHOLES ARE REQUIRED FOR MANHOLES CONSTRUCTED IN 100-YEAR FLOOD PLAIN.
- SANITARY SEWER LINES PARALLEL TO WATER LINES SHALL BE INSTALLED WITH AT LEAST 9-FOOT HORIZONTAL AND 2-FOOT VERTICAL CLEARANCE AND IN SEPARATE TRENCHES. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE.
- SANITARY SEWER LINES CROSSING WATER LINES MUST HAVE A FULL LENGTH JOINT (18" NOMINAL) CENTERED AT THE CROSSING WITH A MINIMUM SEPARATION DISTANCE OF 6 INCHES.
- ACCESS TO MANHOLES WILL BE BY PORTABLE LADDER, AS STEPS ARE PROHIBITED.
- ALL SANITARY SEWER CROSSING EXISTING ROADS IN PEARLAND SHALL BE CASED PER SANITARY SEWER DETAIL SHEET 2 OF 3 UNLESS EXEMPT BY THE CITY ENGINEER.

DUMPSTER RIGHT ELEVATION RETAIL
Scale 1/4" = 1'-0"

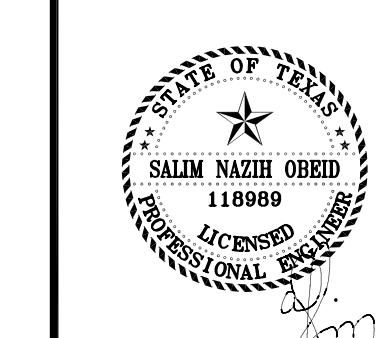
WATER MAIN

- WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PEARLAND EDCM AND STANDARD DETAIL.
- UNLESS OTHERWISE NOTED, ALL WATER LINES SHALL HAVE A MINIMUM OF 4' OF COVER FOR THE WATERLINE DIAMETER LESS THAN 12 INCH AND 5' FOR 12 INCH AND LARGE PIPES TO FINISHED GRADE.
- ALL WATER LINES, AFTER INSTALLATION, SHALL BE THOROUGHLY DISINFECTED ACCORDING TO AWWA SPECIFICATION C-651 AND THEN FLUSHED BEFORE BEING PLACED INTO SERVICE.
- NOTIFY THE CHIEF ENGINEERING INSPECTOR 24 HOURS BEFORE THE SYSTEM IS PRESSURE TESTED AND DISINFECTED. THE CITY WILL TAKE ALL SAMPLES FOR BACTERIOLOGICAL TESTING AS REQUIRED BY TCEQ.
- ALL WATER LINES ARE TO BE HYDROSTATICALLY TESTED BY THE CONTRACTOR AT 125 P.S.I. @ 60 HOURS OR 150 P.S.I. @ 4 HOURS IN ACCORDANCE WITH THE CITY OF PEARLAND DESIGN STANDARDS. CONTRACTOR SHALL NOTIFY CHIEF ENGINEERING INSPECTOR AT (281) 851-2314 AT LEAST 24 HOURS PRIOR TO THE HYDROSTATIC TESTS.
- SEE APPROVED PRODUCT LIST (CITY ENGINEERING WEBPAGE) FOR ALLOWABLE WATER LINE PIPE MATERIAL.

DUMPSTER PLAN RETAIL
Scale 1/4" = 1'-0"DUMPSTER FRONT ELEVATION RETAIL
Scale 1/4" = 1'-0"

GENERAL NOTES

- FOR DUMPSTER ENCLOSURE REFER STRUCTURAL DRAWINGS
- FOR SLAB FINISHED GRADES, SEE GRADING PLAN.
- ALL WOOD FOR GATES IS TO BE THRU-BOLTED TO TUBE FRAME WITH 3/8" GALVANIZED BOLTS AND HARDWARE.
- DUMPSTER ENCLOSURE MATERIAL: CONCRETE MASONRY UNIT (CMU)



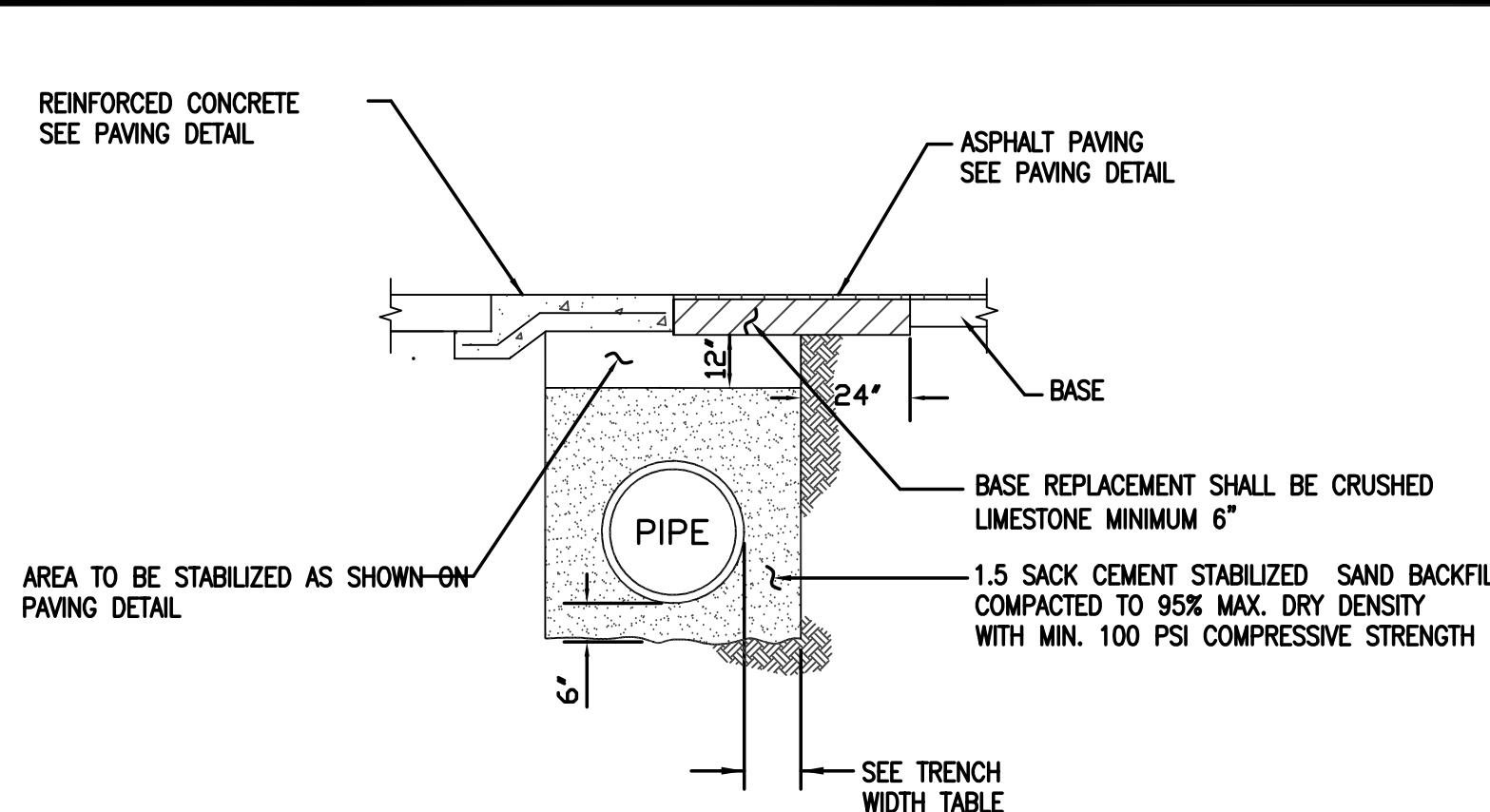
01.24.2023

CONSTRUCTION NOTES AND DETAILS

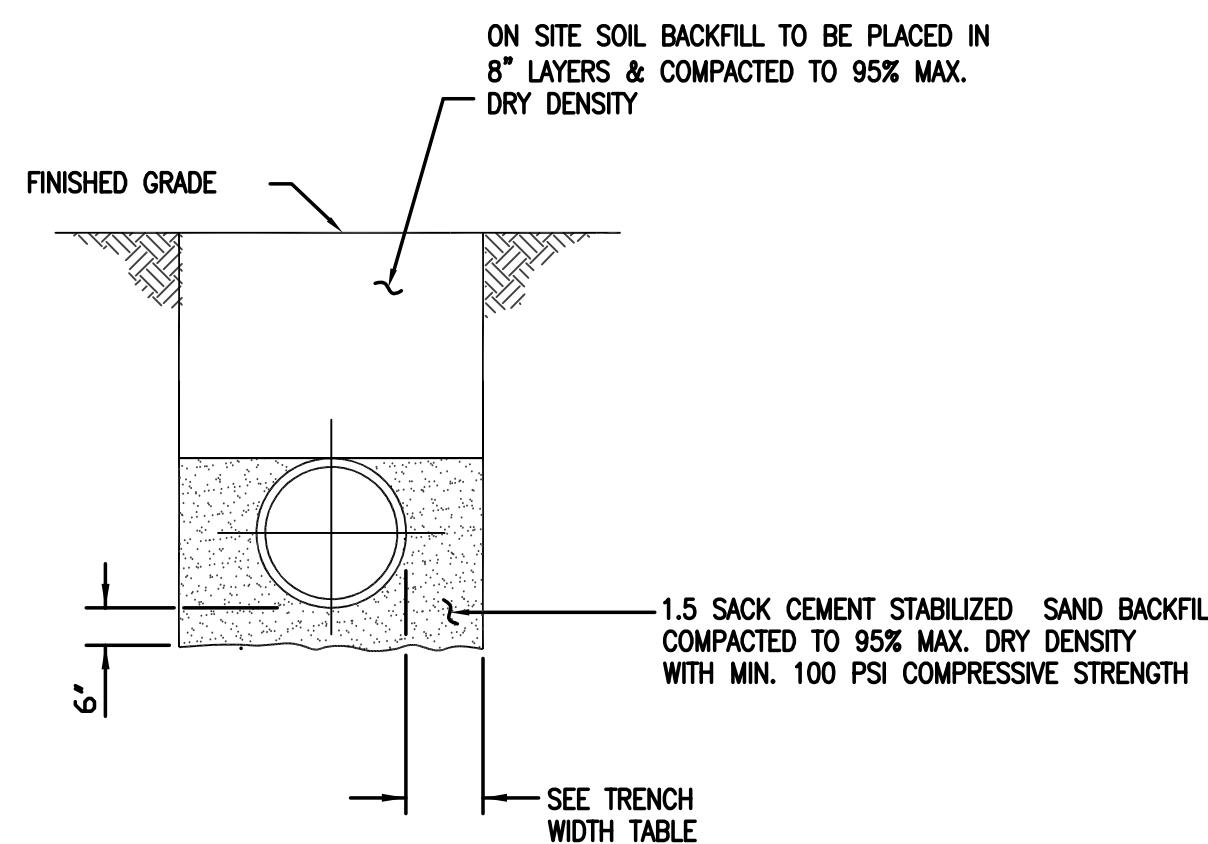
DRAWN BY: CM	CHECKED: SNO
PROJECT No: 2286.12	Sheet No: C7.0

TRASH ENCLOSURE BOLLARD
Scale 3/8" = 1'-0"DUMPSTER SECTION RETAIL
Scale 3/8" = 1'-0"

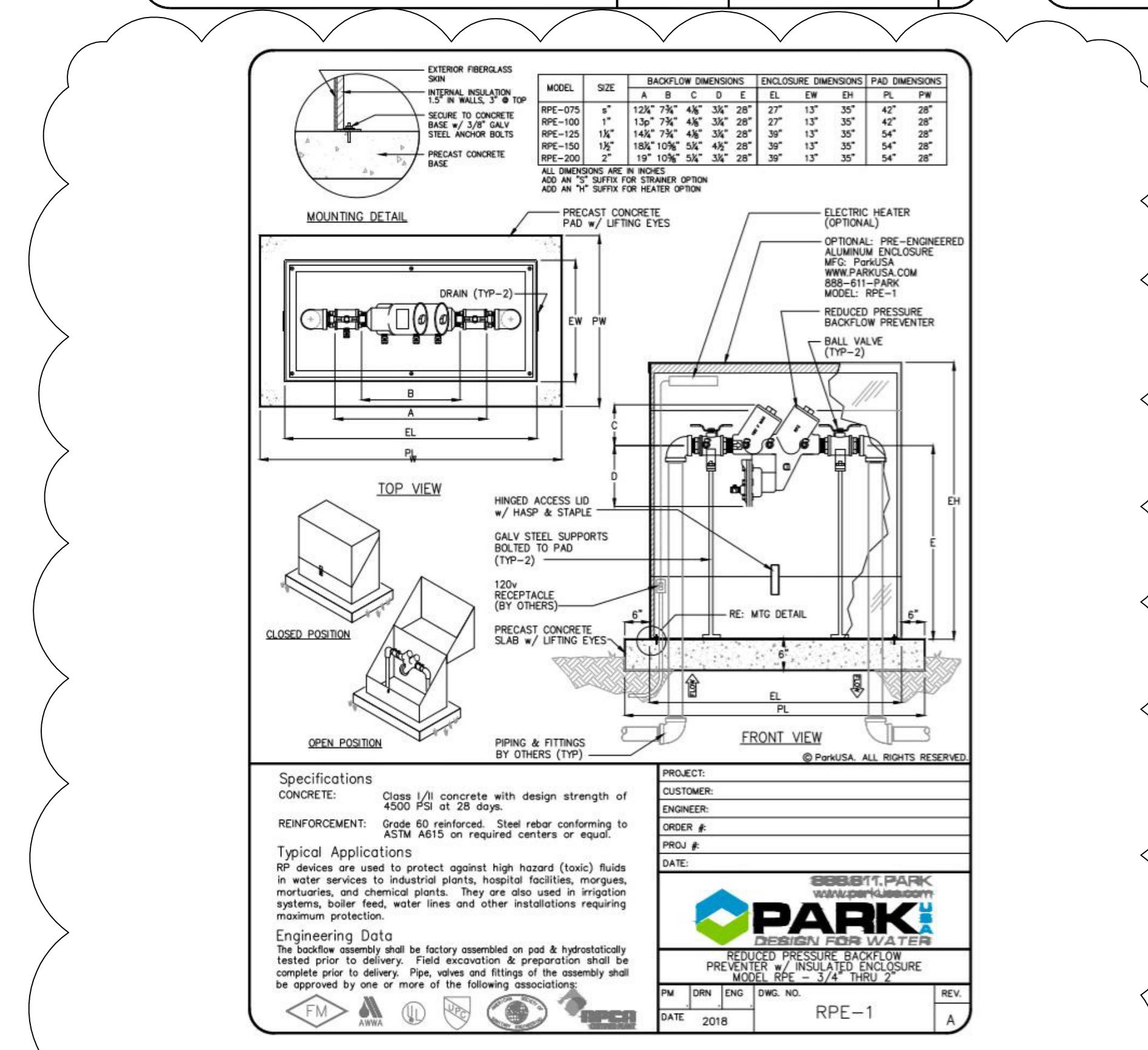
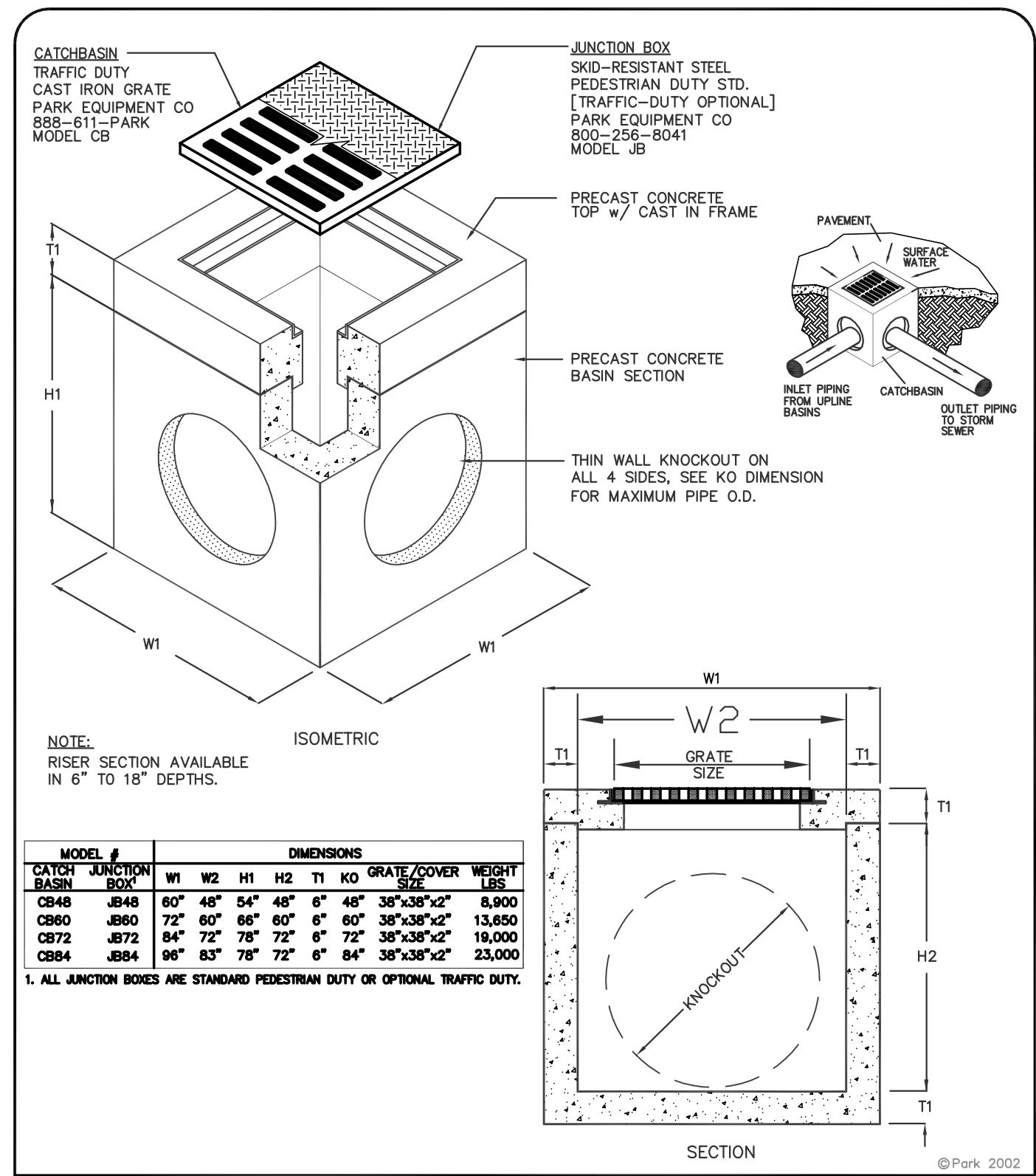
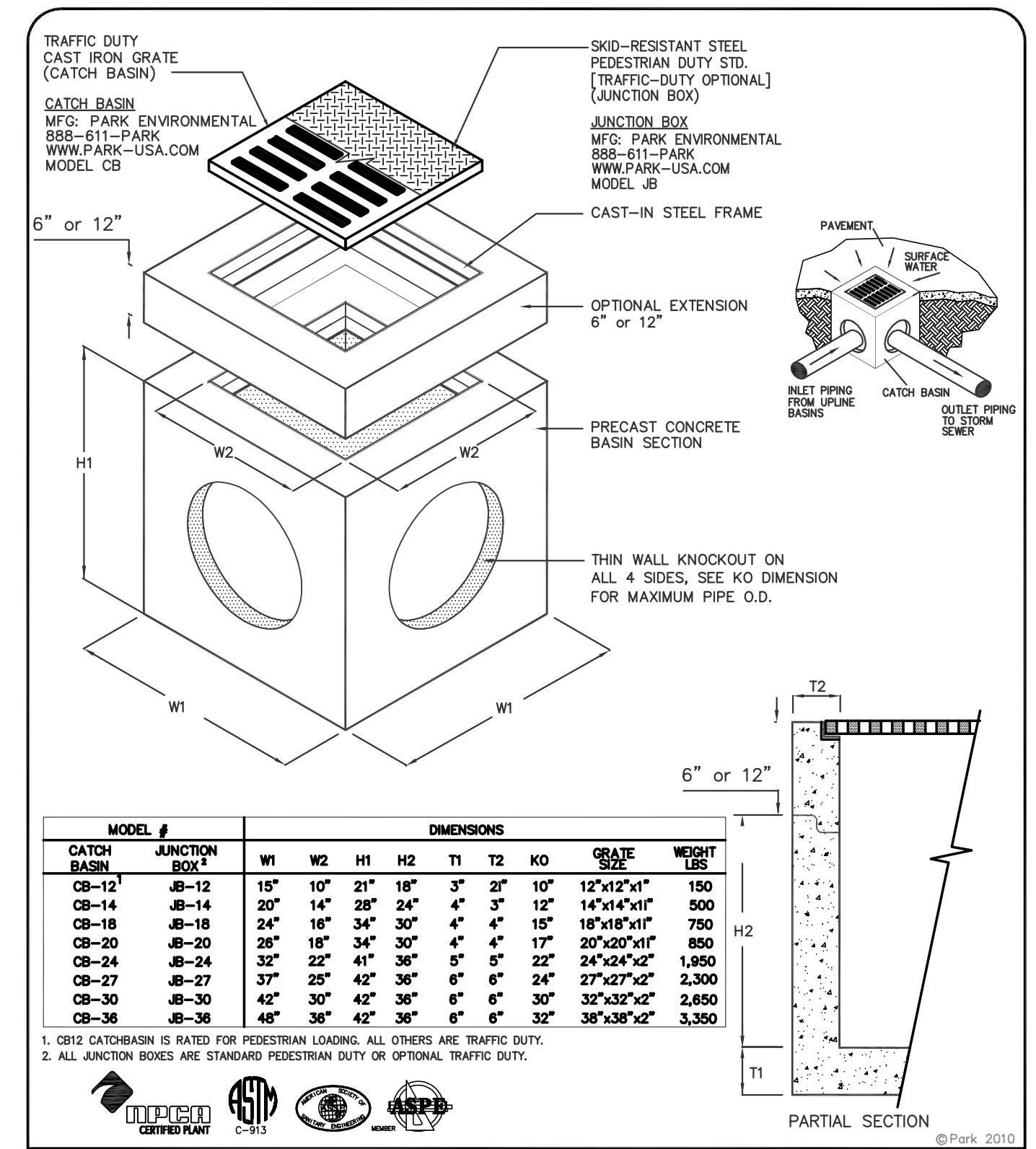
900	930
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1 3 TRENCH SECTION FOR GRAVITY SEWER UNDER PAVEMENT



2 AA PIPE BEDDING DETAIL FOR GRAVITY SEWER
3 GRADED AREA



project
FOREST PARK LANE
at
1849 FOREST PARK LANE
PEARLAND, TEXAS 77581

RSG ENGINEERING



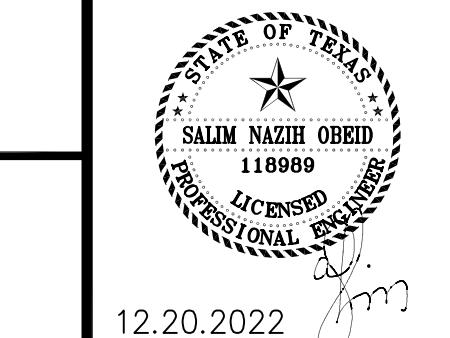
The image shows a circular seal for the State of Texas. The outer ring contains the words "STATE OF TEXAS" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by stars. The inner circle contains the name "SALIM NAZIH OBEID" and the number "118989" above the word "LICENSED". Below "LICENSED" is a signature that appears to be "J. Jim".

CONSTRUCTION DETAILS

DRAWN BY: M	CHECKED: SNO
PROJECT No 2286.12	SHEET No C7.1

1849 FOREST PARK LANE
PEARLAND, TEXAS 77581project
at
FOREST PARK LANE

REVISIONS

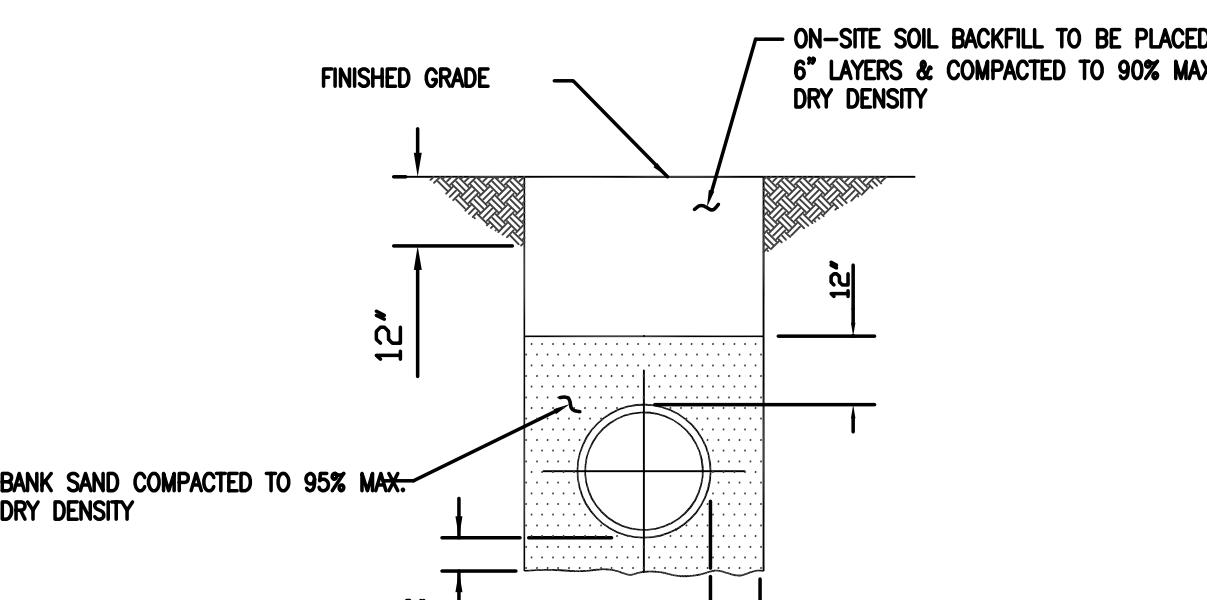
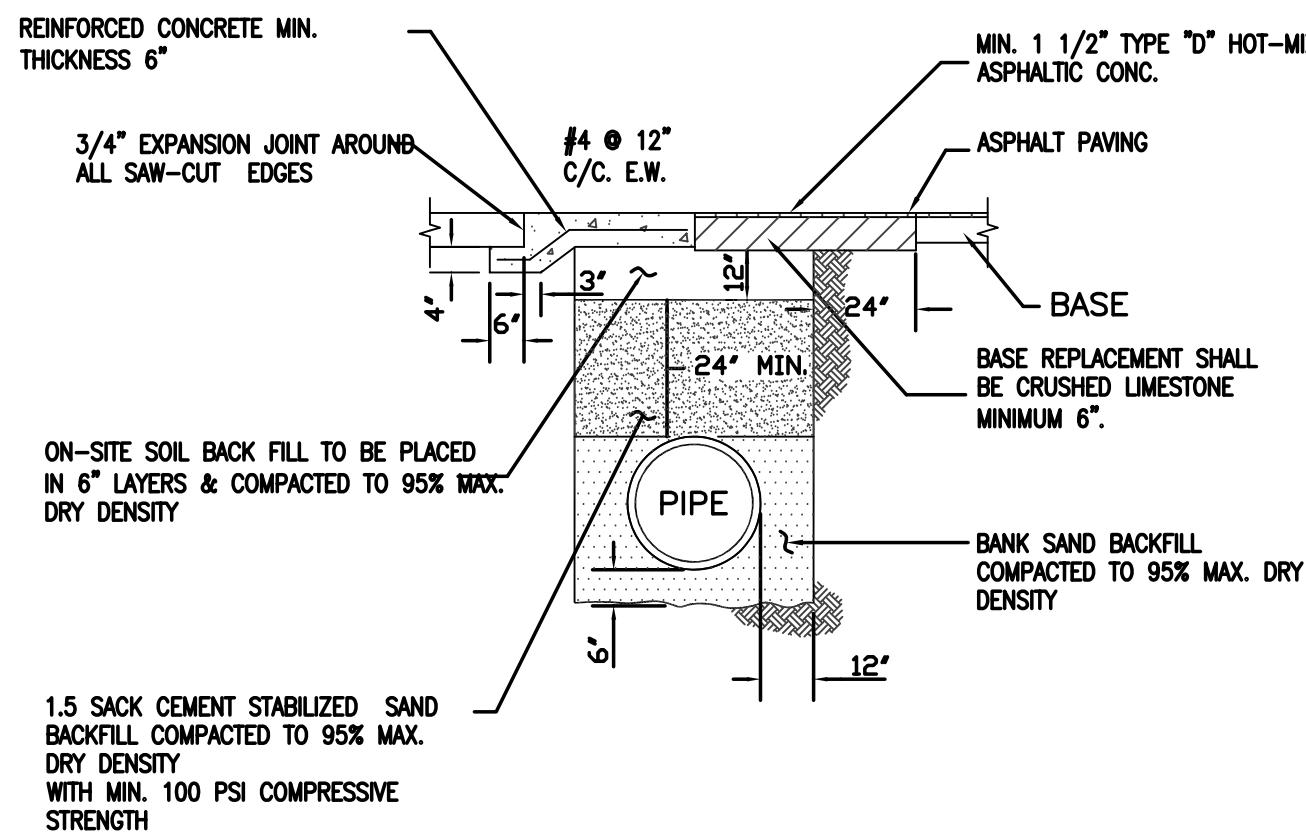
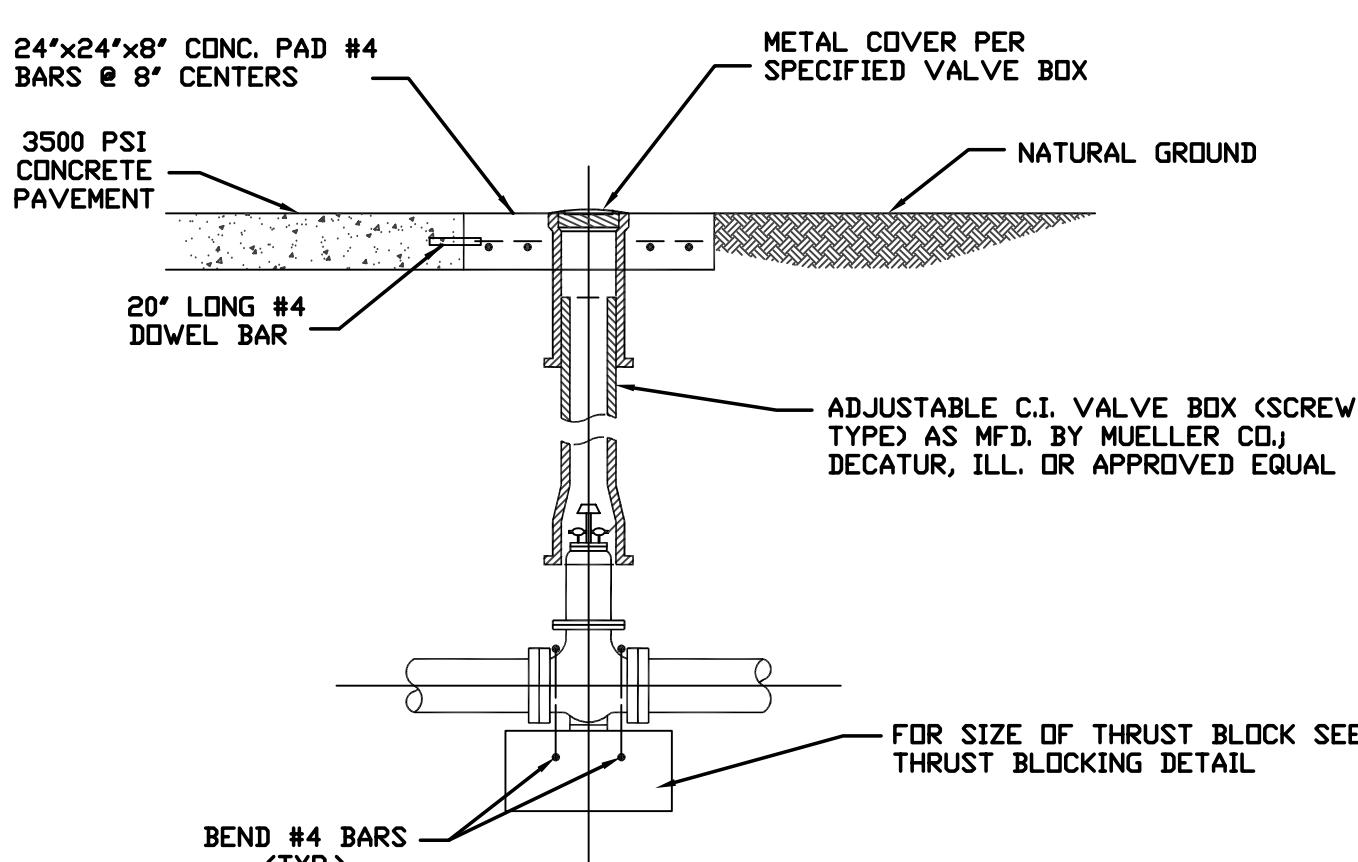
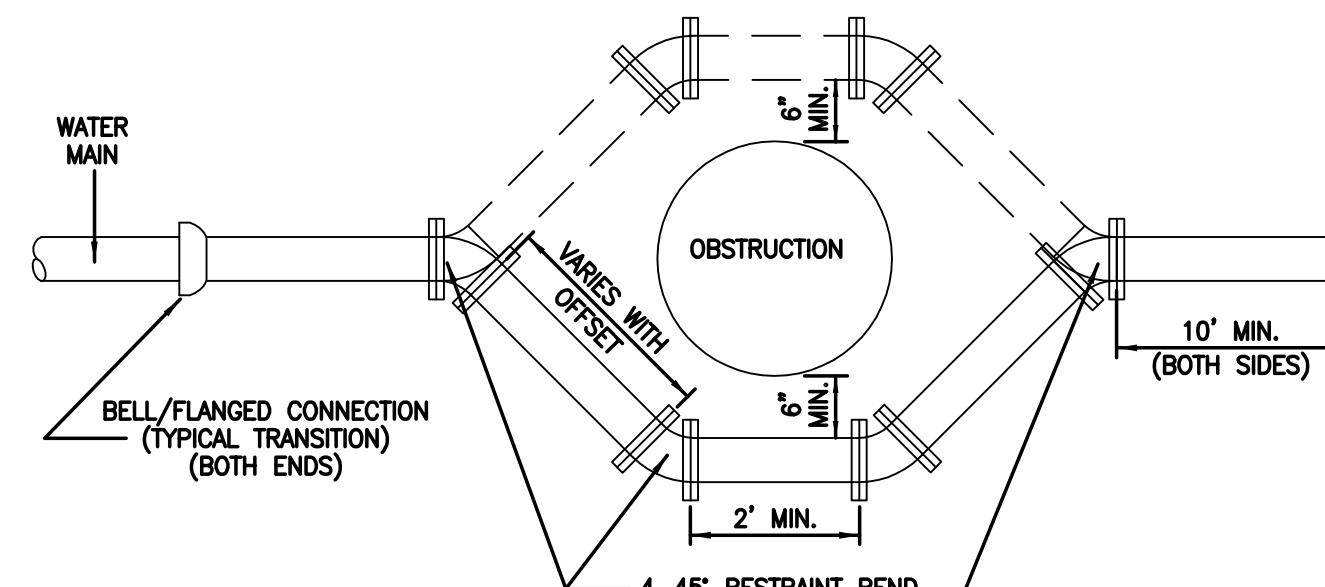


City of Pearland, Texas

CONSTRUCTION DETAILS

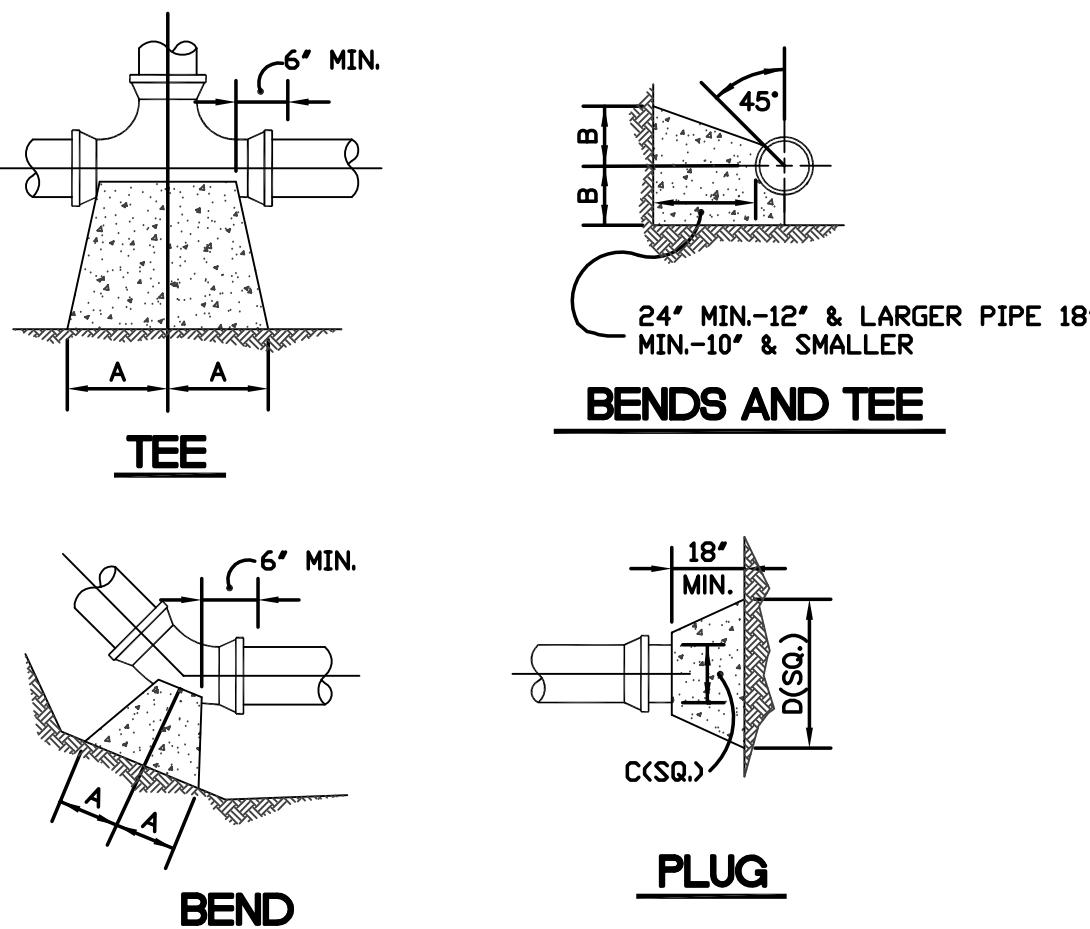
WATER

DRAWN BY: CM
CHECKED: SNO
PROJECT No: 2286.12
SHEET No: C7.3
SHEET: 1 OF 2

1
1
TYPICAL TRENCH SECTION
GRADED AREA4
1
TYPICAL TRENCH SECTION IN PAVED AREA2
1
VALVE BOX

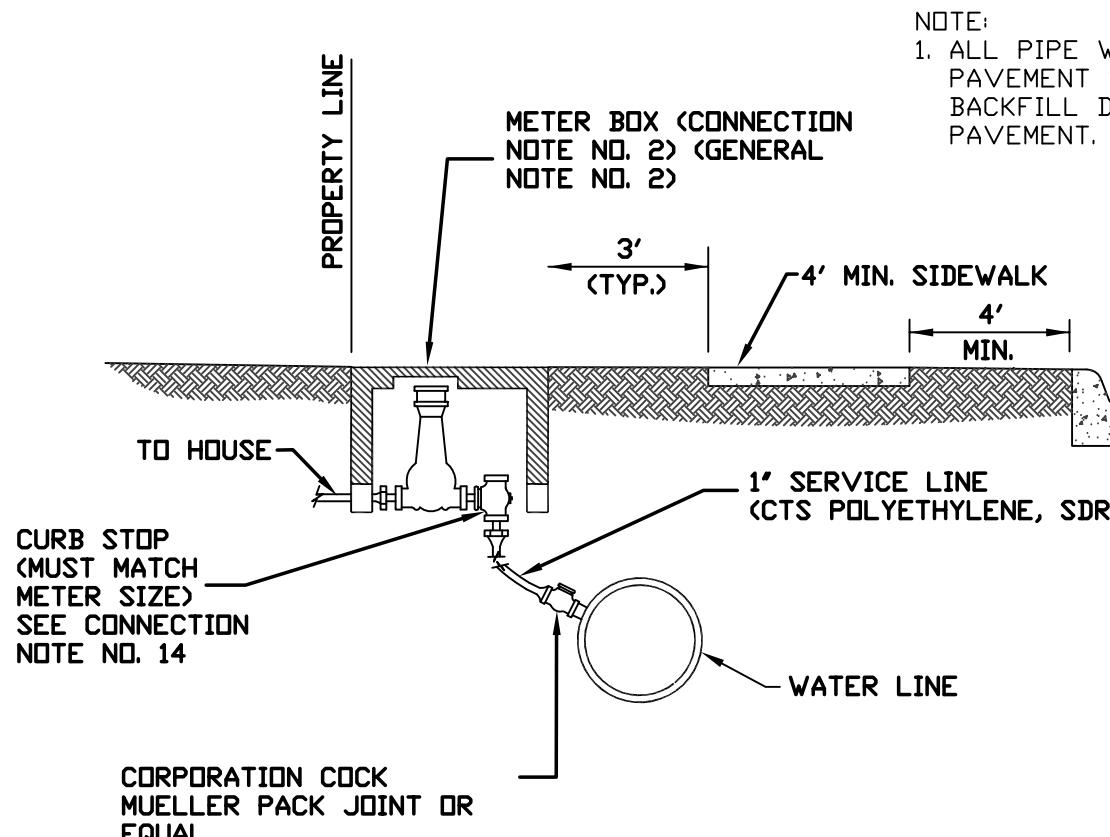
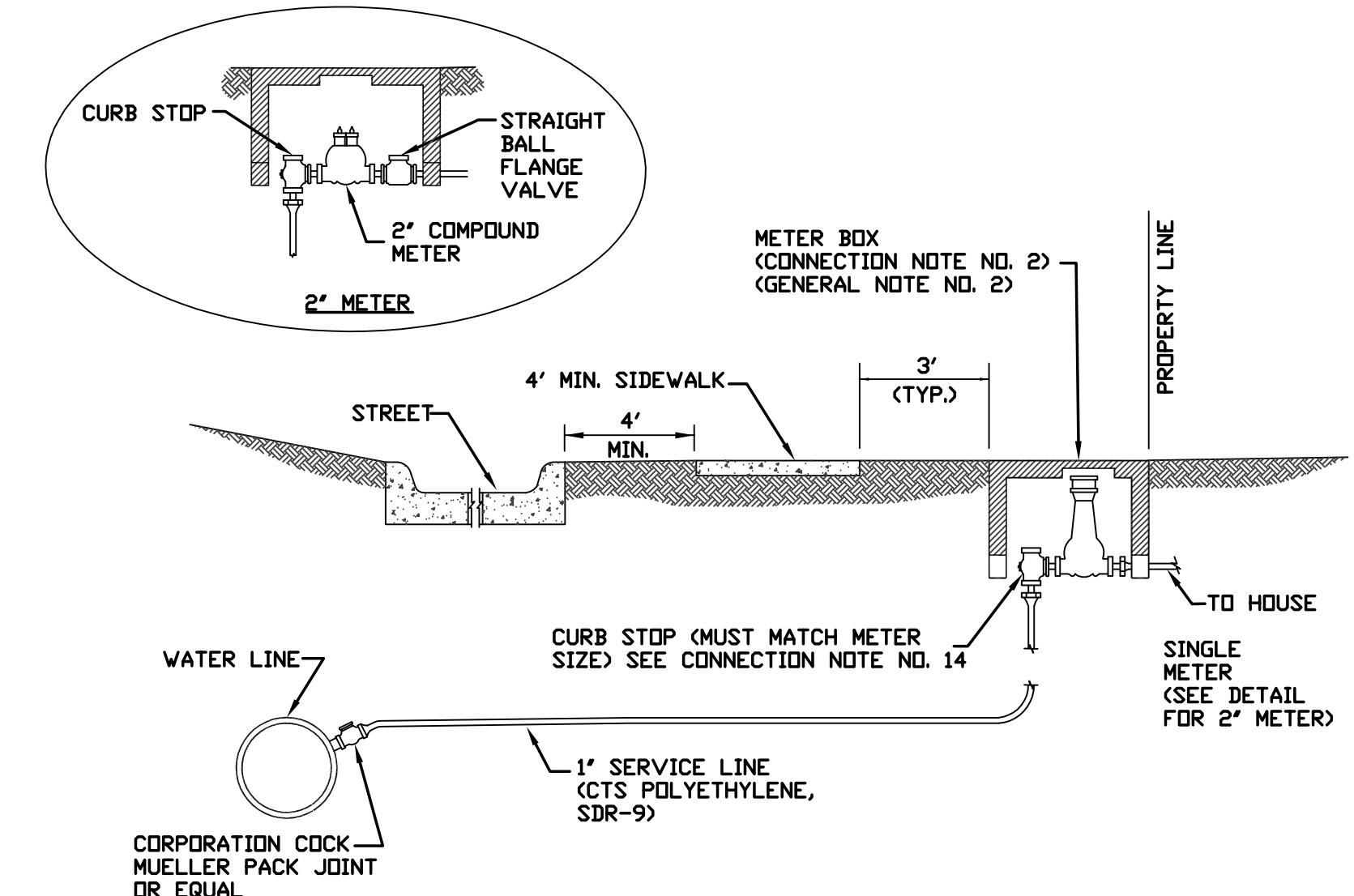
FOR A LINE TO PASS OVER AN OBSTRUCTION RATHER THAN UNDER, IT MUST HAVE ADEQUATE COVER AND BE APPROVED BY THE ENGINEERING DEPARTMENT.

MIN. PIPE WALL THICKNESS	
4"	0.250"
6"	0.280"
8"	0.322"
12" AND LARGER	0.375"

5
1
OFFSET ASSEMBLY6
1
THRUST BLOCKING DETAIL

S ₁ Z _E	90° BEND	45° BEND	22 1/2° BEND	TEES	PLUGS					
A	B	A	B	A	B	C	D			
4"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
6"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
8"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
10"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
12"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
14"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"
16"	42"	30"	24"	30"	12"	24"	24"	30"	24"	60"
18"	50"	40"	30"	40"	18"	30"	30"	40"	30"	78"
24"	60"	48"	36"	48"	20"	36"	36"	48"	36"	96"
30"	60"	48"	36"	48"	20"	36"	36"	48"	36"	96"

NOTE: DIMENSION WITH ASTERISK (*) REQUIRES STRUCTURAL DESIGN.

7
1
WHEN SERVICE METER IS NEAR WATER MAIN8
1
WHEN SERVICES CROSS PAVED STREET

SERVICE CONNECTION DETAILS

NOTES:

1. THE WATER MAIN SHALL HAVE A MINIMUM COVER OF 48" BELOW TOP OF CURB GRADE.
2. THE WATER SERVICE LINES THAT ARE INSTALLED BEFORE THE COMPLETION OF STREET CONSTRUCTION SHALL BE LAID IN THE SERVICE DITCH AT THE SAME ELEVATION AS THE WATER MAIN OR A MINIMUM COVER OF 48" BELOW TOP OF CURB GRADE. AT THE PROPER LOCATION FOR THE METER BOX, THE METER (CURB) STOP SHALL BE RAISED TO 18" BELOW TOP OF CURB GRADE WITH ENOUGH EXCESS TUBING TO RAISE THE STOP AT A FUTURE DATE TO 6" BELOW TOP OF CURB GRADE.
3. LOCATOR WIRE SHALL BE PLACED ON ALL MAINS AND SERVICES. (MIN 14 GA. COPPER)
4. SINGLE METER SERVICE LINES SHALL BE 1" MIN. I.D. CTS. POLYETHYLENE, SDR-9.
5. CONTRACTOR TO FURNISH AND INSTALL DOUBLE SERVICE METER BOXES AT FINISH GRADE.
6. FIRE HYDRANT ASSEMBLIES SHALL NORMALLY BE LOCATED THREE FEET BEHIND BACK OF CURB, DEFLECT WATERLINES AS NECESSARY TO MAINTAIN THREE FOOT CLEARANCE. REQUIRED ASSEMBLY SHALL INCLUDE ONE LINE SIZE BY SIX INCH TEE, ONE SIX INCH GATE VALVE AND BOX, ONE FIRE HYDRANT AND SIX INCH LEAD PIPING AND TIE BACKS.
7. WATER VALVES ON MAIN LINES SHALL BE LOCATED AS CLOSE AS POSSIBLE TO EXTENDED PROPERTY LINE AND SHALL CONFORM TO AWWA C-500, OPEN LEFT, EQUIPPED WITH 2" SQUARE OPERATING NUT.
8. WATERLINES 4" INCH THROUGH 12" INCH I.D. SHALL COMPLY WITH THE REQUIREMENTS OF AWWA STANDARD C-900 CLASS 150, DR-18 WITH CAST IRON OUTSIDE DIAMETER.
9. ALL CONCRETE THRUST BLOCKING SHALL BE PLACED TO FORM A SOLID CONNECTION BETWEEN FITTINGS, VALVES, AND FIRE HYDRANTS AND UNDISTURBED EARTH. CONCRETE FOR THRUST BLOCKING SHALL HAVE A MINIMUM OF 2500 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS.
10. DUCTILE IRON COMPRESSIVE FITTINGS SHALL CONFORM TO AWWA C-153 AND END JOINTS OF FITTINGS AND MAIN LINE VALVES SHALL CONFORM TO AWWA C-153 FOR RUBBER GASKETED JOINTS. GRAY IRON AND DUCTILE IRON FITTINGS SHALL BE CEMENT LINED OR EPOXY COATED.
11. ALL FIRE HYDRANTS AND VALVE BOXES ARE TO BE ADJUSTED TO FINISH GRADE AFTER PAVING IS COMPLETE.
12. INSTALL CONCRETE BLOCK BENEATH FIRE HYDRANTS BEFORE PLACING CONCRETE THRUST BLOCKING TO INSURE THAT FIRE HYDRANTS ARE INSTALLED LEVEL.
13. CONTRACTOR SHALL NOTIFY CITY ENGINEER 48 HOURS BEFORE START OF CONSTRUCTION.
14. RIGHT ANGLE CURB STOPS MADE BY FORD, OR APPROVED EQUAL, SHALL BE USED. (SINGLE SERVICE: FORD BA43-342W OR EQUIVALENT, DOUBLE SERVICE: FORD UAWB43-42W OR EQUIVALENT). ONLY PACK JOINT CURB STOPS ARE PERMITTED.
15. WATER MANIFOLDS ARE NOT PERMITTED (EXCLUDING 1 INCH WATER SERVICES WITH 1 INCH U-BRANCH ASSEMBLY).
16. WATER TAPS SHALL HAVE A MINIMUM OF 24 INCH SEPARATION BETWEEN TAPS ON THE MAIN WATER LINE.

NOTE:

1. ALL PIPE WITHIN 1' OF PAVEMENT SHALL USE BACKFILL DETAIL FOR UNDER PAVEMENT.
2. PROVIDE "UNI-FLANGE" OR APPROVED EQUAL PIPE RESTRAINT AND CASING SYSTEM ON UNDERGROUND PRESSURE PIPE SYSTEMS.
3. ALL WATER TAPS TO BE PLACED IN LINE WITH PROPERTY CORNER OR PLACED HALF WAY BETWEEN THE FRONT LOT CORNERS, OR AT PC OF CURB RETURN IN MULTI LOT SUBDIVISIONS.
4. IF LOTS ARE LESS THAN 60' WIDE, TAPS ARE TO BE PLACED AT PROPERTY CORNERS.

1849 FOREST PARK LANE
PEARLAND, TEXAS 77581Project
FOREST PARK LANE

at

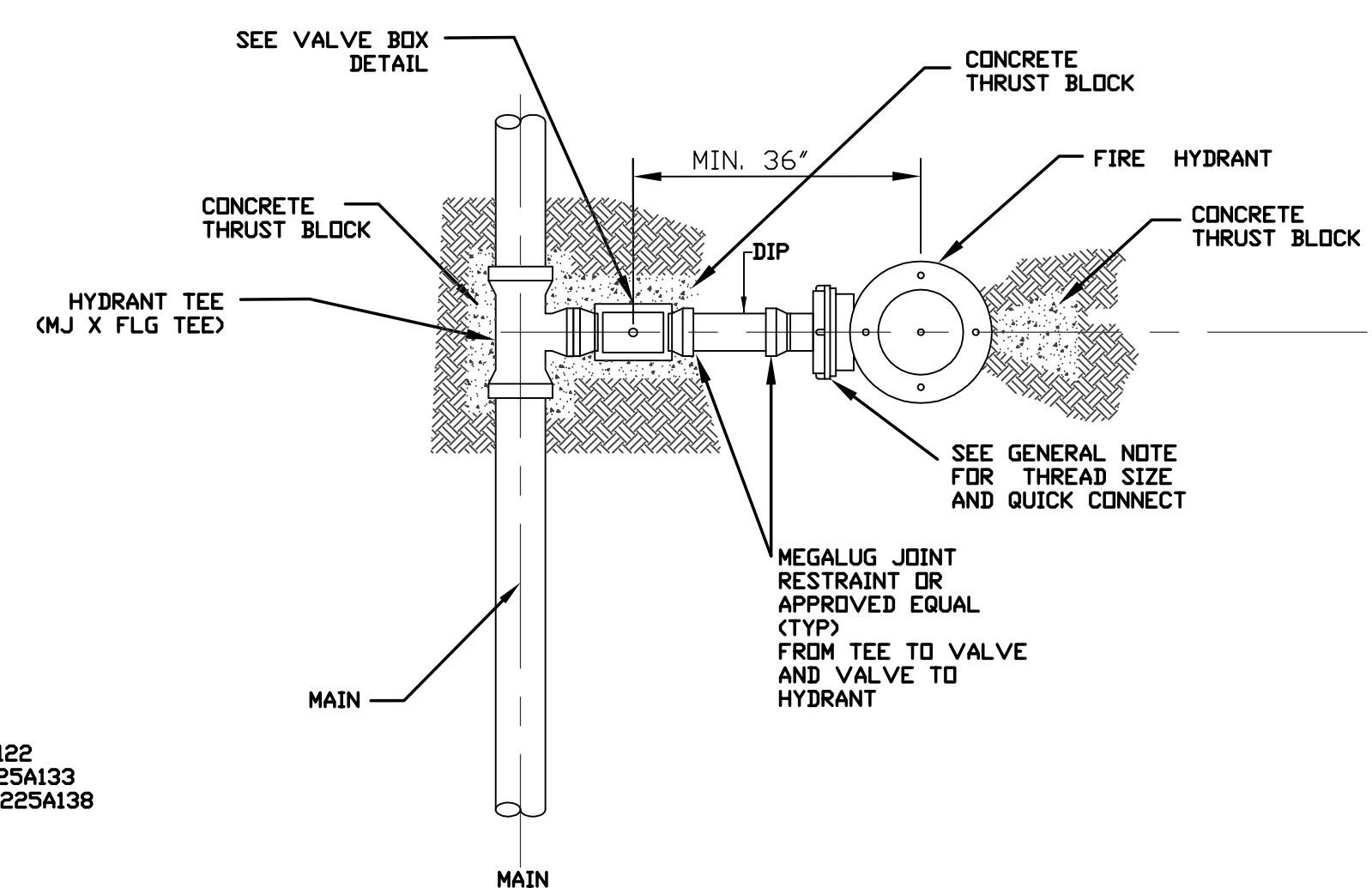
REVISIONS



12.20.2022

NOTES:

1. THE FIRE HYDRANT SUPPLY LINE FROM PUBLIC WATER MAIN TO THE FIRE HYDRANT SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE. PVC SHALL NOT BE ALLOWED.
2. FIRE HYDRANT THREAD SIZE: PUMPER CONNECTION 4-492 SIZE=4.492".
3. PROVIDE "UNI-FLANGE" OR APPROVED EQUAL PIPE RESTRAINT AND CASING SYSTEM ON UNDERGROUND PRESSURE PIPE SYSTEMS.
4. FIRE HYDRANT ASSEMBLIES SHALL NORMALLY BE LOCATED THREE FEET BEHIND BACK OF CURB, DEFLECT WATERLINES AS NECESSARY TO MAINTAIN THREE FOOT CLEARANCE. REQUIRED ASSEMBLY SHALL INCLUDE ONE LINE SIZE BY SIX INCH TEE, ONE SIX INCH GATE VALVE AND BOX, ONE FIRE HYDRANT AND SIX INCH LEAD PIPING AND TIE BACKS.
5. ALL CONCRETE THRUST BLOCKING SHALL BE PLACED TO FORM A SOLID CONNECTION BETWEEN FITTINGS, VALVES, AND FIRE HYDRANTS IN UNDISTURBED EARTH. CONCRETE FOR THRUST BLOCKING SHALL HAVE A MINIMUM OF 2500 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS.
6. INSTALL CONCRETE BLOCK BEHIND FIRE HYDRANTS BEFORE PLACING CONCRETE THRUST BLOCKING TO INSURE THAT FIRE HYDRANTS ARE INSTALLED LEVEL.
7. ALL FIRE HYDRANTS AND VALVE BOXES ARE TO BE ADJUSTED TO FINISH GRADE AFTER PAVING IS COMPLETE.
8. ALL FIRE HYDRANTS ARE TO BE EQUIPPED WITH HYDRA-STOR® QUICK CONNECT HYDRANT SYSTEM (1/4" X 5" BASE) WITH DEBRIS CAP. MANUFACTURED BY HYDRA-STOR, INC. OR APPROVED EQUAL DEBRIS CAP IS TO BE TETHERED WITH A 12" STAINLESS STEEL CABLE, UTILIZING THE EYELET ON THE FIRE HYDRANT AND THE DEBRIS CAP.
9. CONTRACTOR SHALL NOTIFY CITY ENGINEER 48 HOURS BEFORE START OF CONSTRUCTION.
10. ALL FIRE HYDRANT RESTRAINTS TO BE MJ FITTING.
11. ALL BONNETS AND CAP SHALL BE FACTORY PRIMED



3-2 FIRE HYDRANT - PLAN

SEE VALVE BOX DETAIL

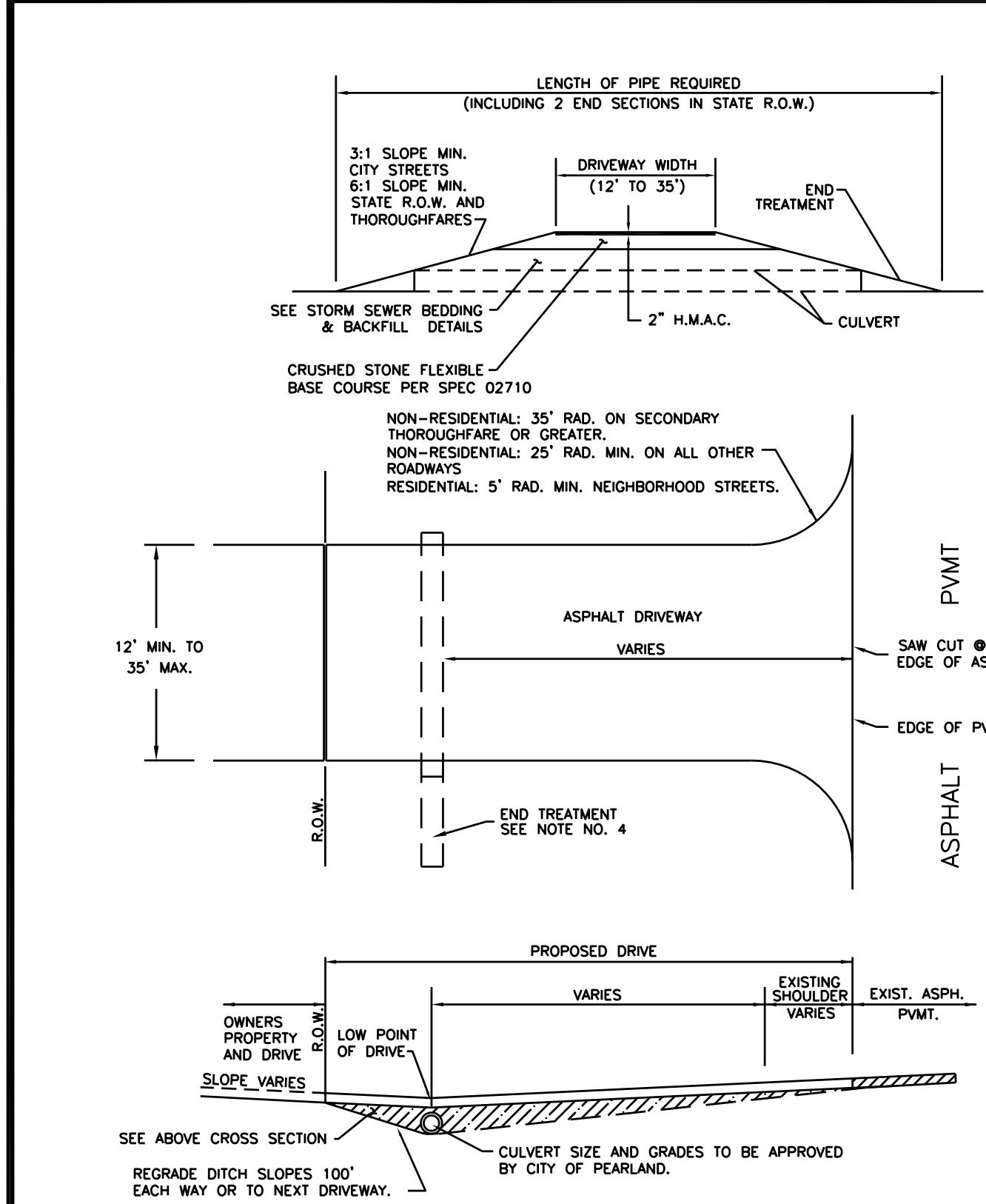
CONCRETE THRUST BLOCK

FIRE HYDRANT

CONCRETE THRUST BLOCK

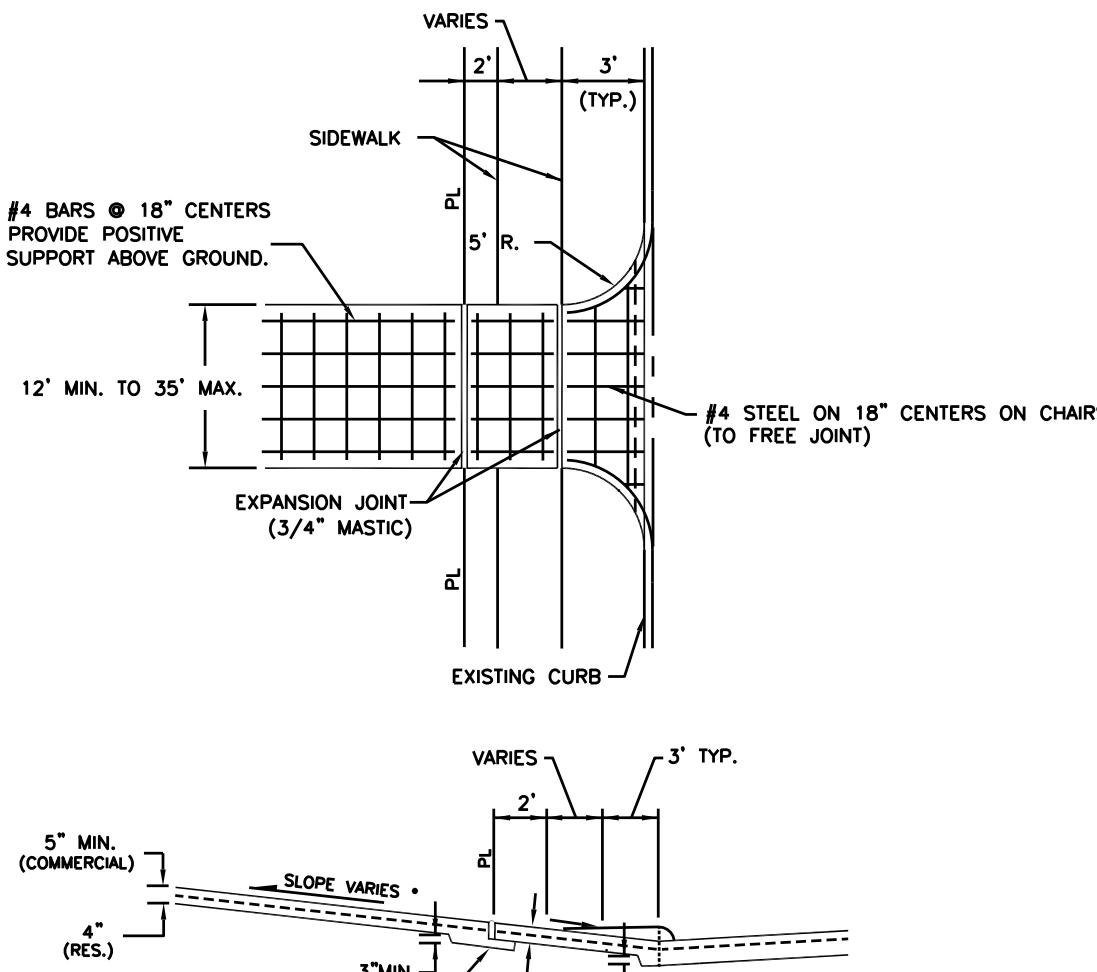
CONCRETE THRUST BLOCK

MAIN



1 **ASPHALT DRIVEWAY TO ASPHALT STREET**

1 **OPEN DITCH**

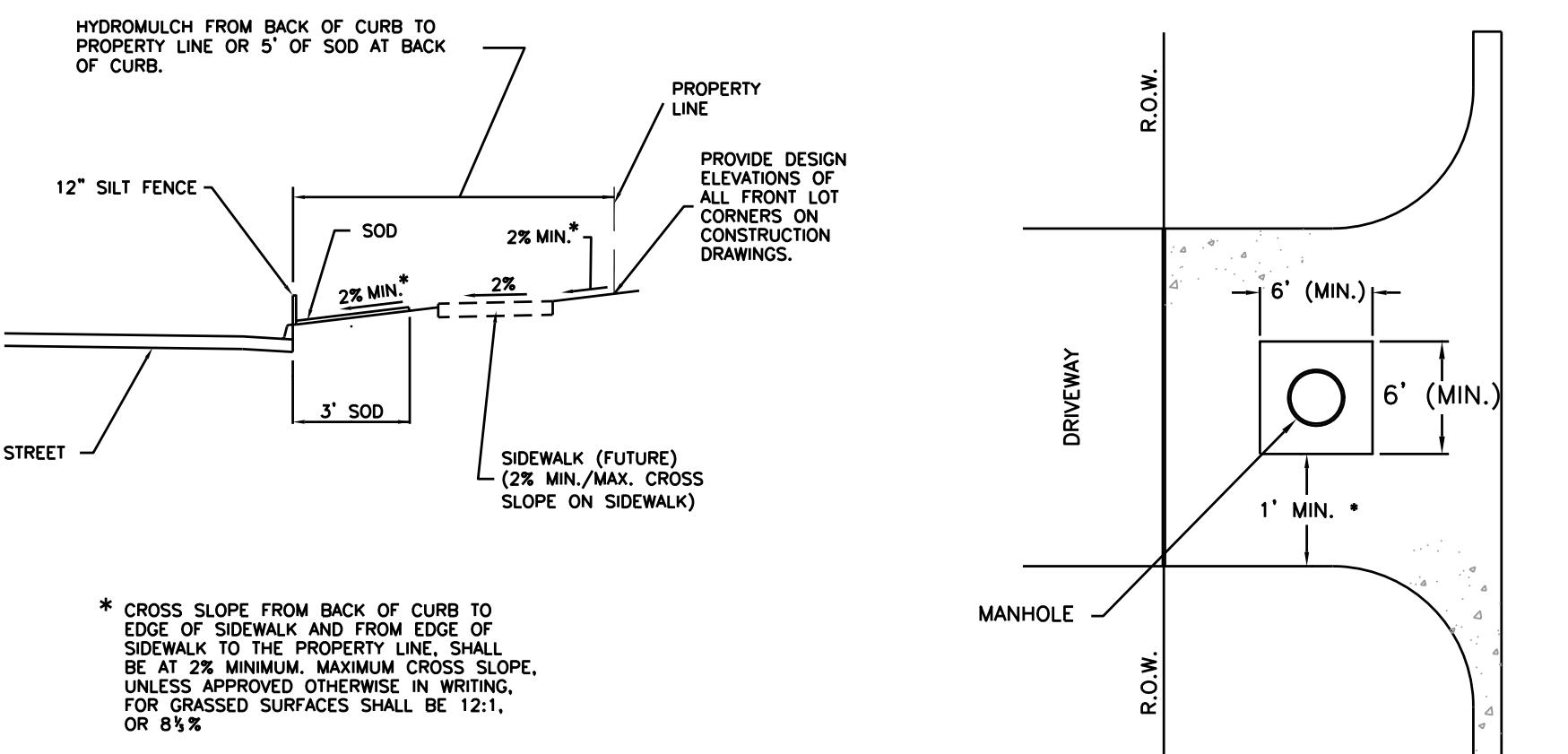


* NOTES:
1. CITY STREETS ONLY. NO CUTOUTS ARE PERMITTED ON TEXAS STATE HIGHWAYS.
2. ALL CUTOUTS MUST HAVE BARRICADES INSTALLED UNTIL DRIVEWAYS ARE POURED.
3. ALL DRIVEWAYS IN STATE R.O.W. REQUIRE TxDOT PERMIT AND TRAFFIC CONTROL PLAN PRIOR TO BEGINNING CONSTRUCTION.
4. DESIRABLE DRIVEWAY SLOPE MAY VARY BETWEEN 2% AND 8%.

2 **CONCRETE DRIVEWAY TO CONCRETE CURB AND GUTTER STREET**

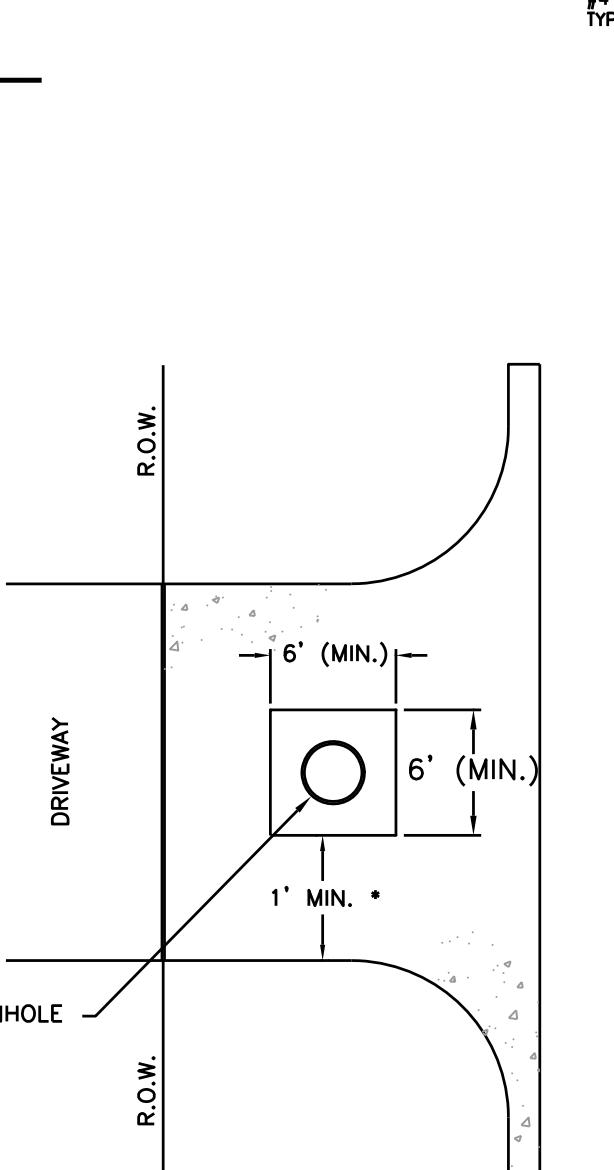
3 **CONCRETE DRIVEWAY TO ASPHALT STREET**

1 **OPEN DITCH**



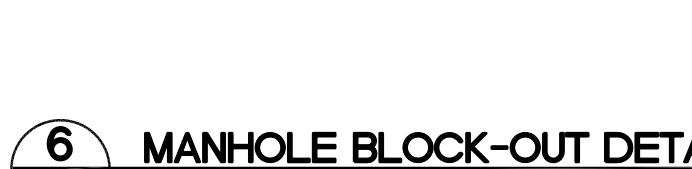
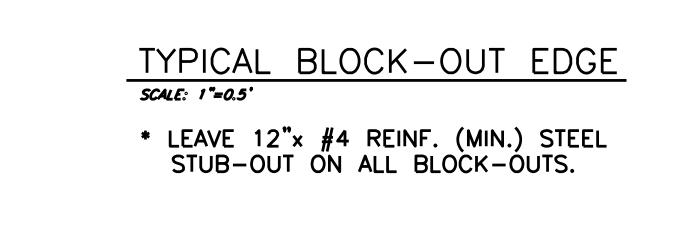
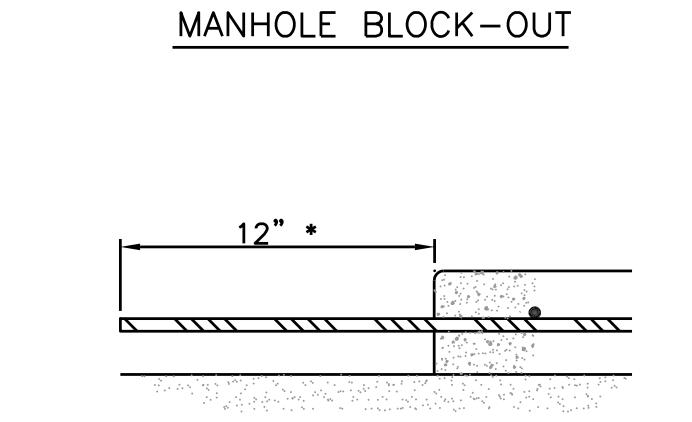
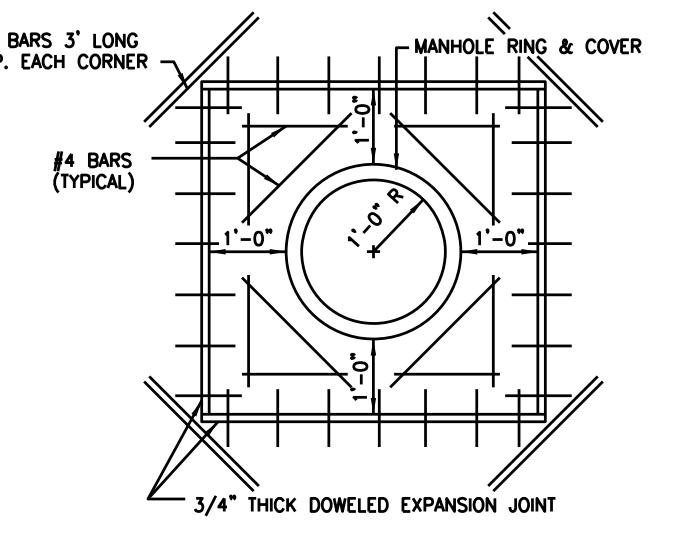
* NOTES:
1. MAINTAIN SILT FENCE UNTIL AT A MINIMUM OF 70% STABILIZATION OF DISTURBED AREA IS PERMANENTLY STABILIZED.
2. 90% COMPACTION MUST BE MAINTAINED FROM BACK OF CURB TO PROPERTY LINE.
3. CROSS SLOPE FROM BACK OF CURB TO EDGE OF SIDEWALK AND FROM EDGE OF SIDEWALK TO THE PROPERTY LINE, SHALL BE AT LEAST MINIMUM MAINTAINABLE SLOPE, UNLESS APPROVED OTHERWISE IN WRITING, FOR GRASSED SURFACES SHALL BE 12:1, OR 8:1.

4 **PARK STRIP DETAIL**

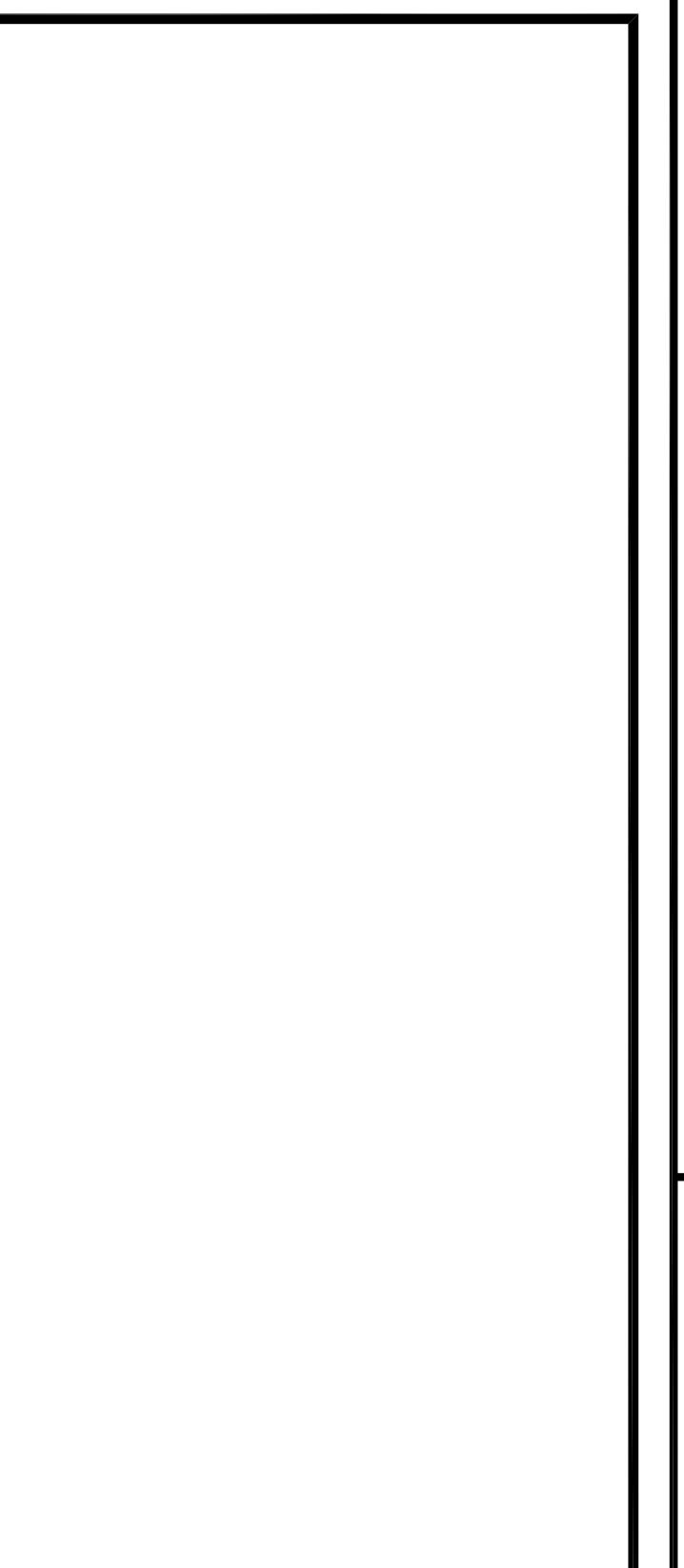


* NOTES:
1. MAINTAIN SILT FENCE UNTIL AT A MINIMUM OF 70% STABILIZATION OF DISTURBED AREA IS PERMANENTLY STABILIZED.
2. 90% COMPACTION MUST BE MAINTAINED FROM BACK OF CURB TO PROPERTY LINE.
3. CROSS SLOPE FROM BACK OF CURB TO EDGE OF SIDEWALK AND FROM EDGE OF SIDEWALK TO THE PROPERTY LINE, SHALL BE AT LEAST MINIMUM MAINTAINABLE SLOPE, UNLESS APPROVED OTHERWISE IN WRITING, FOR GRASSED SURFACES SHALL BE 12:1, OR 8:1.

5 **NEW CONCRETE DRIVEWAY BLOCK-OUT TO EXISTING CONCRETE STREET**



6 **MANHOLE BLOCK-OUT DETAIL**



project

FOREST PARK LANE

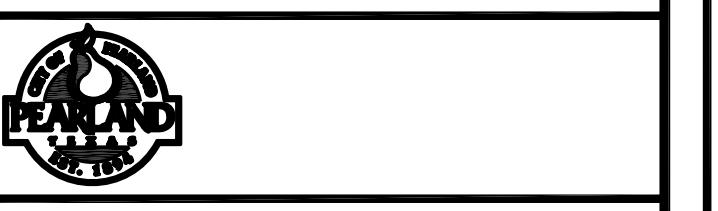
at

1849 FOREST PARK LANE

PEARLAND, TEXAS 77581

REVISIONS

THIS DETAIL SHEET HAS BEEN PREPARED FOR USE ON STANDARD CITY OF PEARLAND PROJECTS. AN ENGINEER WHO INCORPORATES THE DETAILS ON THIS SHEET BECOMES RESPONSIBLE FOR ITS USE IN THE END PRODUCT IN ACCORDANCE WITH RULE 137.33 (b) AND (c) OF THE TEXAS STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS.



12.20.2022

City of Pearland, Texas

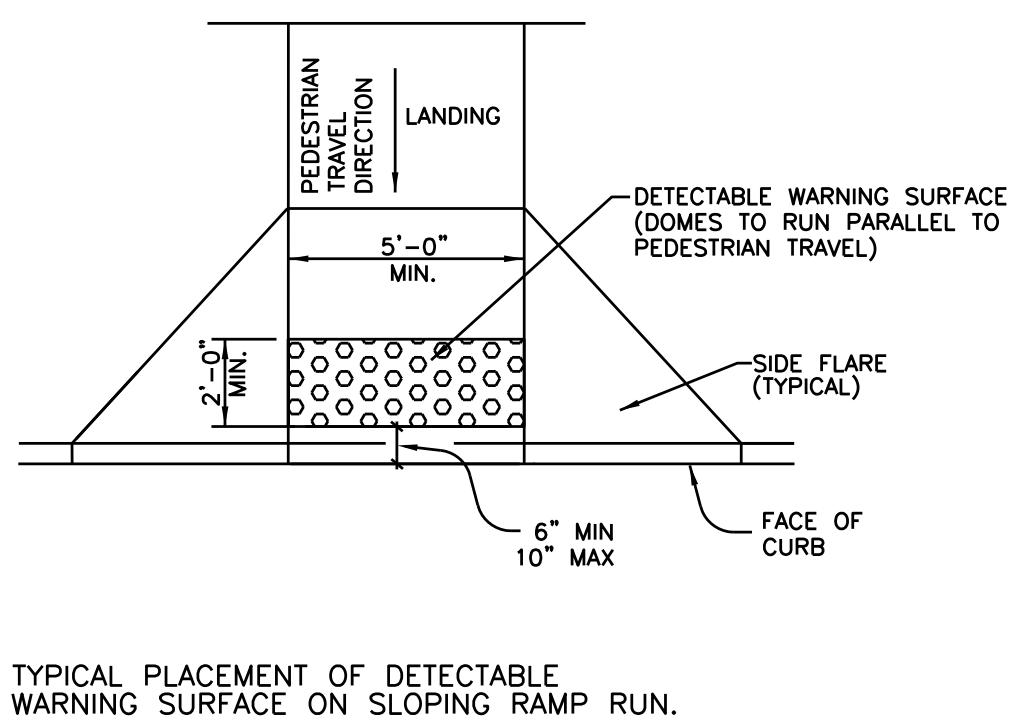
STANDARD DETAILS

DRIVEWAY DETAILS

Job No.:	Scale:	Sheet
Date: SEPT 2016	HORZ: 1" - NONE VERT: 1" - NONE	1
Dwn By: R. Shrestha	CAD FILE: COP-DW.dwg	1
Chkd By: R. Moncillo	OF 1	

PROJECT No. 2286.12

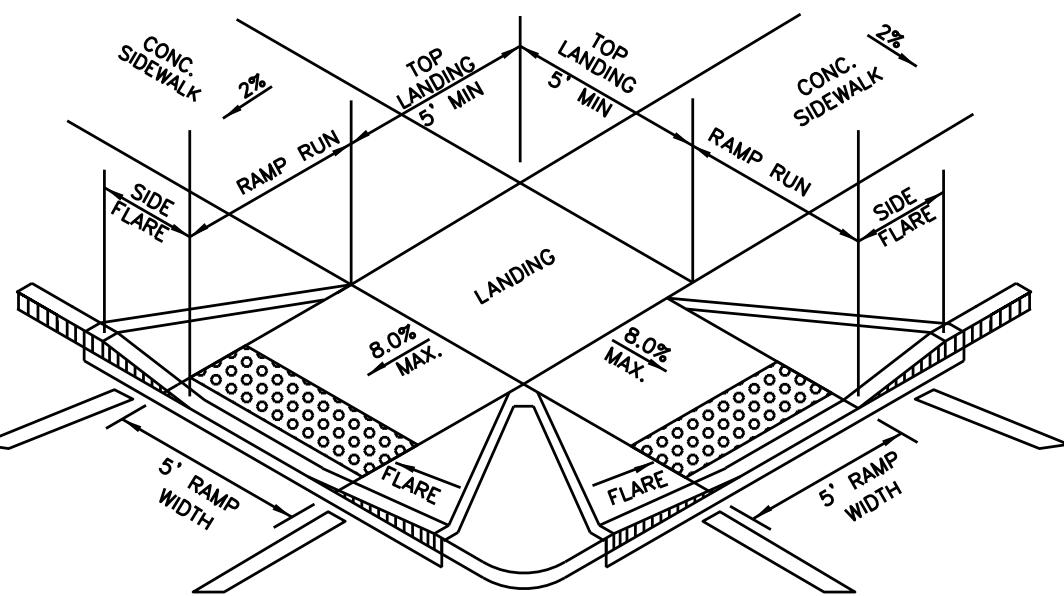
SHEET No. C7.5



TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING CURB RAMP.

NOTES:

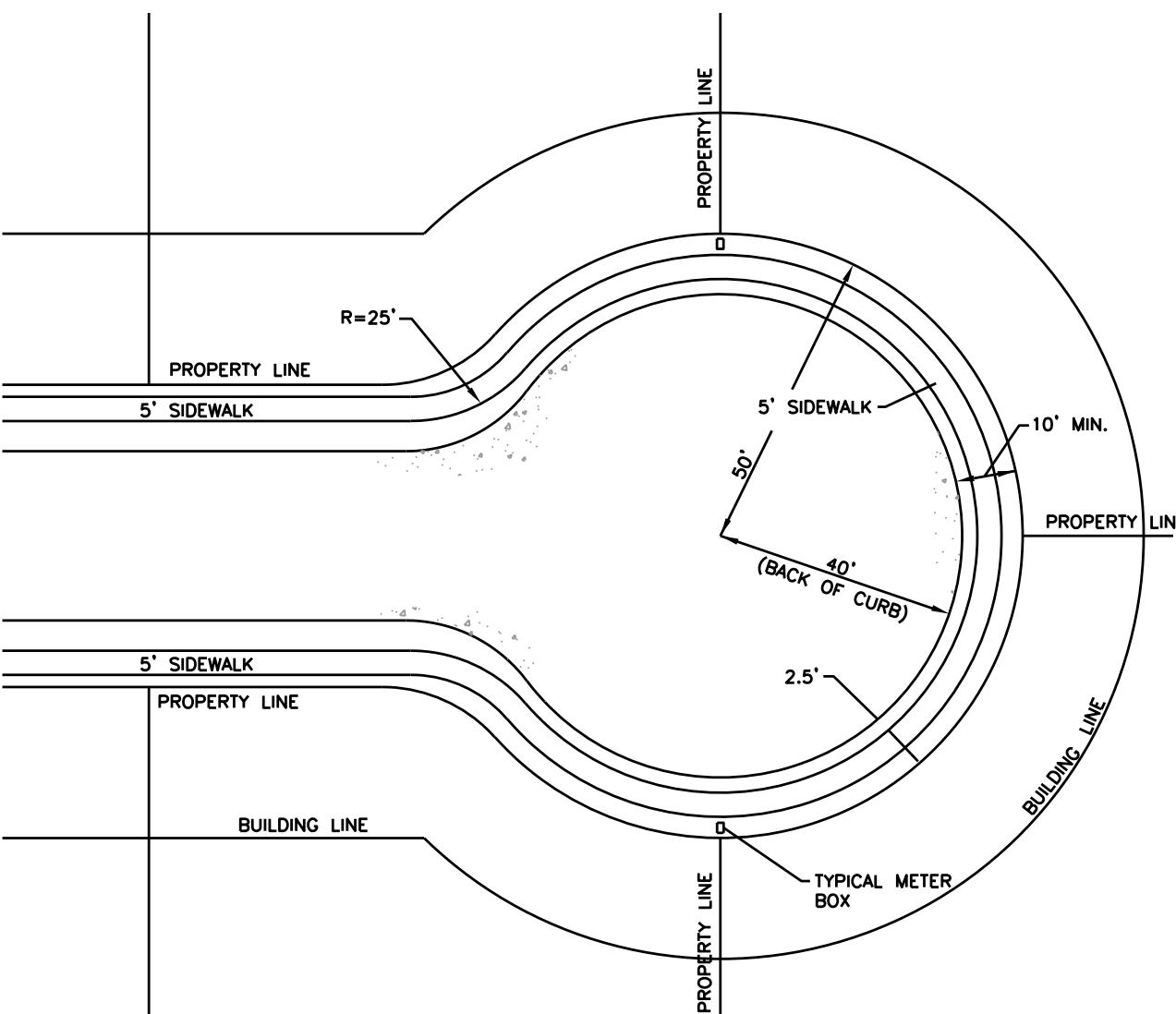
1. CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES, INCLUDING SIDE FLARES. FURNISH DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE, INCLUDING SIDE FLARES.
2. DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
3. ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
4. DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR OTHER HAZARDOUS VEHICULAR AREA.
5. THE ACCEPTABLE LIST OF QUALIFIED DETECTABLE WARNING MATERIALS FOR THE CITY OF PEARLAND INCLUDES ARMOR-TILE CAST IN PLACE TILE, CAST-IN-PLACE COMPOSITE TILES BY ADA SOLUTIONS, INC AND ANY OTHER PRODUCT THAT IS DEEMED TO BE EQUAL TO OR BETTER THAN THE ABOVE REFERENCED PRODUCTS BY THE CITY ENGINEER. (DETECTABLE WARNING PAVERS ARE NOT PERMITTED.)
6. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS A MINIMUM OF 6" AND A MAXIMUM OF 10" FROM THE EXTENSION OF THE FACE OF CURB.
7. CURB RAMPS SHALL MEET THE CURRENT ADA AND TEXAS ACCESSIBILITY STANDARDS FOR SLOPE AND DETECTABLE SURFACES.



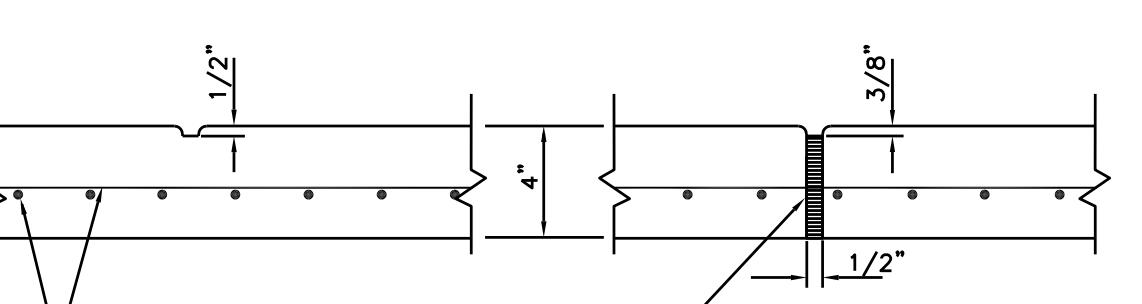
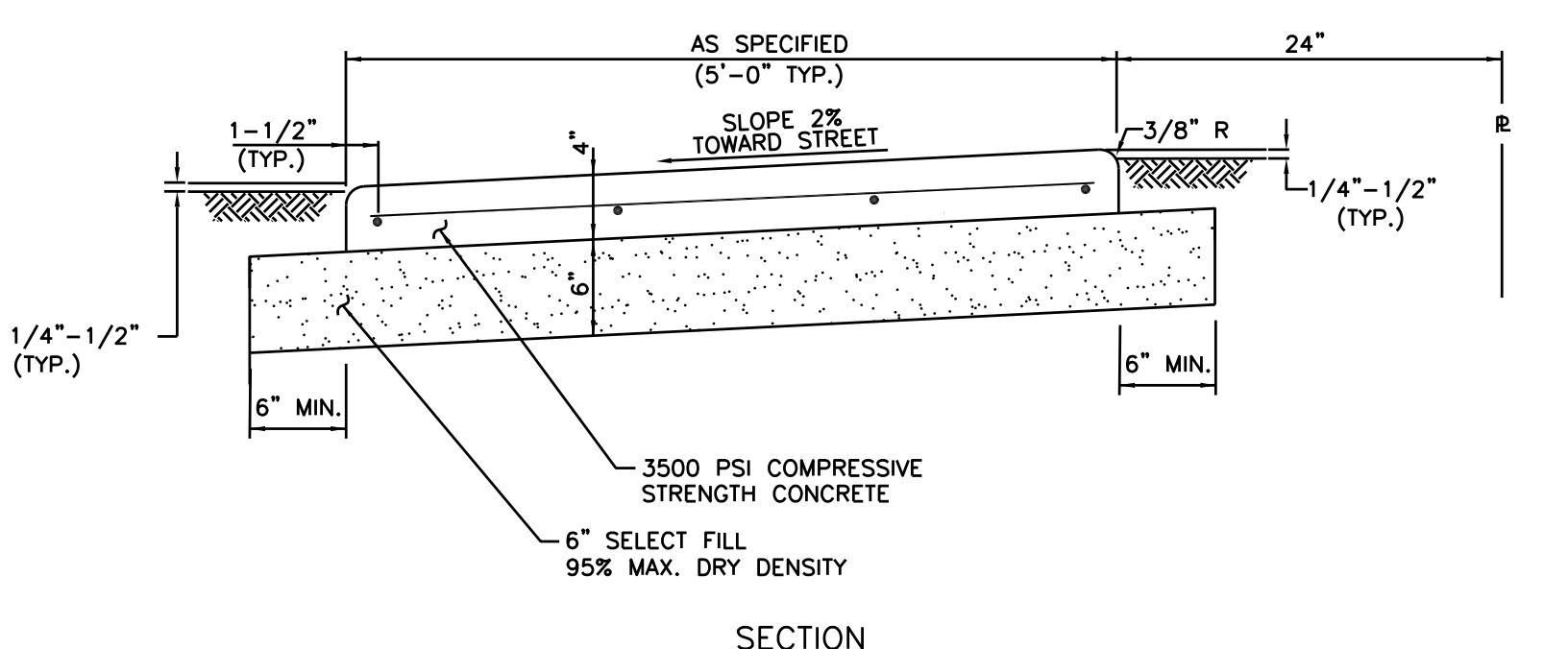
NOTES:

1. ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED.
2. LANDINGS SHALL BE 5' X 5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
3. ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND 16 TAC 668.102.
4. SEPARATE CURB RAMP AND LANDINGS FROM ADJACENT SIDEWALK AND ANY OTHER ELEMENTS WITH AN EXPANSION JOINT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. PROVIDE A SMOOTH TRANSITION WHERE THE CURB RAMPS CONNECT TO THE STREET.
6. CURB RAMPS SHALL MEET THE CURRENT ADA AND TEXAS ACCESSIBILITY STANDARDS FOR SLOPE AND DETECTABLE SURFACES.

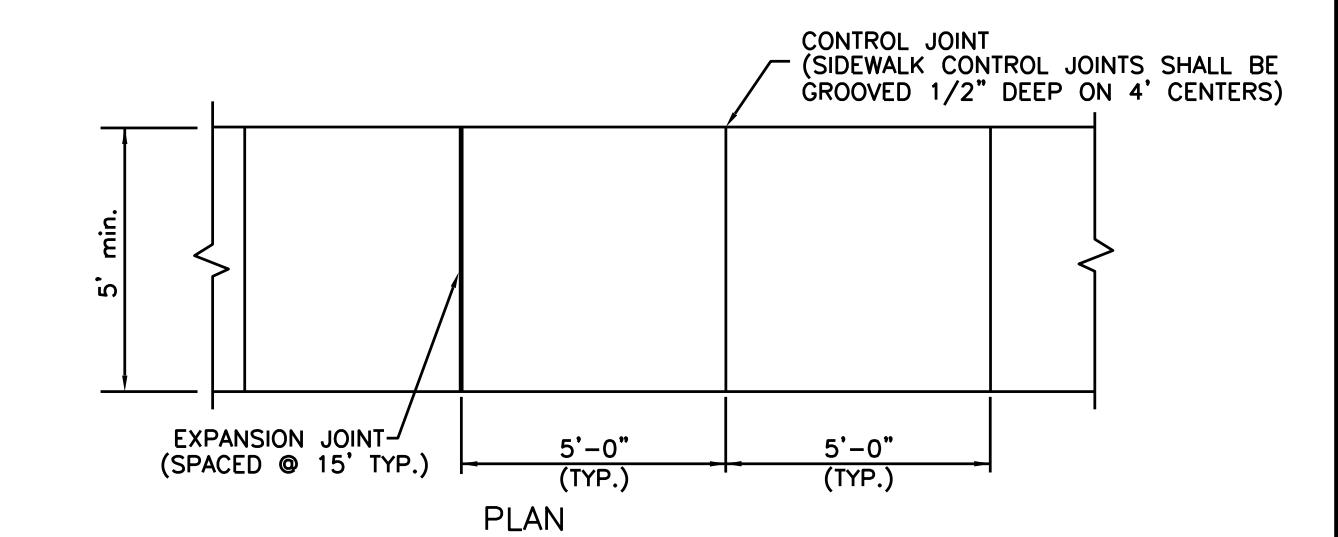
1 CURB RAMP



2 CUL-DE-SAC SIDEWALK



CONTROL JOINT



EXPANSION JOINT

3 CONCRETE SIDEWALK

NOTES:

1. ALL EDGES SHALL BE ROUNDED WITH 3/8" RADIUS.
2. CONTROL JOINTS SHALL BE SPACED AT INTERVALS SAME AS WIDTH OF SIDEWALK.
3. CONTROL JOINTS SHALL BE 1/2" DEEP AND TROWEL EDGE.
4. 1/2" EXPANSION MATERIAL REQUIRED WHERE SIDEWALKS ABUT BUILDINGS, CURBS, DRIVEWAYS, OR EXISTING SIDEWALKS.
5. EXPANSION JOINTS SHALL BE SPACED AT 15 FT. INTERVALS TYPICALLY.
6. WHERE NEW SIDEWALK IS PLACED AGAINST EXISTING SIDEWALK, SAWCUT EXISTING SIDEWALK FULL DEPTH TO AN EVEN STRAIGHT LINE PRIOR TO INSTALLATION OF THE NEW SIDEWALK.
7. ALL NEW SIDEWALK SHALL BE DOWELED INTO ADJACENT CONCRETE STRUCTURES.

NOTE:

1. ALL STREET LIGHTS ARE TO BE INSTALLED WITHIN ONE YEAR AFTER ACCEPTANCE OF SUBDIVISION BY CITY COUNCIL.
2. ALL INTERIOR STREETS WITHIN THE SUBDIVISION MAY HAVE SIDEWALKS INSTALLED BY THE HOMEBUILDER. THE SIDEWALKS ON PERIMETER STREETS SHALL BE INSTALLED BY THE DEVELOPER. SIDEWALKS ON COLLECTOR AND THOROUGHFARE STREETS WILL BE A MINIMUM OF 6 FEET IN WIDTH.

3. ALL H.L.& P. UNDERGROUND CABLE WILL BE BURIED IN RIGID CONDUIT NOT LESS THAN ASTM-A-53 TYPE F GRADE A (DOMESTIC) PIPE, GALVANIZING ASTM-A-123. THIS CONDUIT IS TO BE USED WHEN PLACED UNDER ANY STREET OR DRIVEWAY CROSSING, WATER/SEWER EASEMENTS, OR IN ANY STREET RIGHT OF WAYS.

project

FOREST PARK LANE

at

1849 FOREST PARK LANE
PEARLAND, TEXAS 77581

REVISIONS



PEARLAND

SALIM NAZIH OBEID
118989
LICENSED PROFESSIONAL ENGINEER

12.20.2022

STANDARD DETAILS

CONSTRUCTION DETAILS

DRAWN BY: CM

CHECKED BY: SNO

PROJECT No: 2286.12

SHEET No: C7.6