Addendum

Distribution	☐ Owner ☐ Consultant(s) ☒ Bidders ☐ Other ..		
From	Wendy Heger, AIA Page Southerland Page, Inc. 1100 Louisiana Street Suite One Houston, TX 77002	**Owner**	Galveston County 722 Moody Avenue 6th Floor Galveston, TX 77550
Project	Galveston County Road & Bridge Deptartment Facilities 5115 TX-3 Dickinson, TX 77573	**Architect's Project No.**	418198
Date of Issue	7-October-2020	**Addendum No.**	003
Contract For	General Construction	**For Bids Due**	22-October-2020

Seals

Description

This Addendum includes the following changes to the Work:

1. Civil drawings have been revised to show the three phases of the project.
2. G-100 – Revised drawing index.
3. G-110 – Revised exterior finish schedule
4. C4.0-PH1 – Revised expansion joint layout.
5. C5.0-PH1 – Revised junction box locations.
6. C5.0-PH1 – Revised storm drain inlet location.
7. C6.0-PH1 – Revised junction box elevation.
8. C7.0-PH1 – Revised junction box and storm drain inlets.
9. C7.1-PH1 – Revised sanitary sewer manholes.
10. C10.0-PH1 – Added “ParkUSA Type-A Grate Inlet” detail No. CB4880-1
11. C13.0-PH1 – Revised inlet protection barrier.
12. C13.0-PH1 – Added inlet protection barrier callout.
13. C5.0-PH2 – Revised phase of junction boxes and inlets.
14. C7.1-PH2 – Revised phase of sanitary sewer manholes.
15. A-201O – Revised brick masonry finish tags; Added Masonry Legend.
16. A-110M – Revised dimensions at Restroom M5.
17. A-111M – Revised dimensions at Restroom M5 interior elevation.

Revised Documents

This Addendum includes specification sections or drawing sheets that have been added or revised as of the date noted above. Please replace any documents from the original issue set with those below marked “R” and ADD sheets marked “A” to your bidding documents.

Drawings

Sheet No.	Revision Date	Status	Sheet Title
G-100	10/07/2020	R	GENERAL - PROJECT DATA
G-110	10/07/2020	R	GENERAL – SCHEDULES
C1.0-PH1	10/07/2020	A	COVER SHEET

C2.0-PH1	10/07/2020	A	TOPOGRAPHIC SURVEY
C3.0-PH1	10/07/2020	A	DEMOLITION PLAN
C4.0-PH1	10/07/2020	A	PAVING PLAN
C5.0-PH1	10/07/2020	A	LAYOUT PLAN
C6.0-PH1	10/07/2020	A	GRADING PLAN
C7.0-PH1	10/07/2020	A	UTILITY PLAN
C7.1-PH1	10/07/2020	A	UTILITY PLAN
C8.0-PH1	10/07/2020	A	GENERAL NOTES
C9.0-PH1	10/07/2020	A	PAVEMENT DETAILS
C10.0-PH1	10/07/2020	A	STORM DRAIN DETAILS
C11.0-PH1	10/07/2020	A	WATER DETAILS
C12.0-PH1	10/07/2020	A	SANITARY SEWER DETAILS
C13.0-PH1	10/07/2020	A	SWPPP PLAN
C14.0-PH1	10/07/2020	A	SWPPP DETAILS
C15.0-PH1	10/07/2020	A	DETENTION POND CROSS SECTIONS
C16.0-PH1	10/07/2020	A	STORM DRAIN PLAN AND PROFILE
C17.0-{H1	10/07/2020	A	WATER LINE PLAN AND PROFILE
C1.0-PH2	10/07/2020	A	COVER SHEET
C2.0-PH2	10/07/2020	A	TOPOGRAPHIC SURVEY
C3.0-PH2	10/07/2020	A	DEMOLITION PLAN
C4.0-PH2	10/07/2020	A	PAVING PLAN
C5.0-PH2	10/07/2020	A	LAYOUT PLAN
C6.0-PH2	10/07/2020	A	GRADING PLAN
C7.0-PH2	10/07/2020	A	UTILITY PLAN
C7.1-PH2	10/07/2020	A	UTILITY PLAN
C8.0-PH2	10/07/2020	A	GENERAL NOTES
C9.0-PH2	10/07/2020	A	PAVEMENT DETAILS
C10.0-PH2	10/07/2020	A	STORM DRAIN DETAILS
C11.0-PH2	10/07/2020	A	WATER DETAILS
C12.0-PH2	10/07/2020	A	SANITARY SEWER DETAILS
C13.0-PH2	10/07/2020	A	SWPPP PLAN
C14.0-PH2	10/07/2020	A	SWPPP DETAILS
C1.0-PH3	10/07/2020	A	COVER SHEET
C2.0-PH3	10/07/2020	A	TOPOGRAPHIC SURVEY

C3.0-PH3	10/07/2020	A	DEMOLITION PLAN
C4.0-PH3	10/07/2020	A	PAVING PLAN
C5.0-PH3	10/07/2020	A	LAYOUT PLAN
C6.0-PH3	10/07/2020	A	GRADING PLAN
C7.0-PH3	10/07/2020	A	GENERAL NOTES
C8.0-PH3	10/07/2020	A	PAVEMENT DETAILS
C9.0-PH3	10/07/2020	A	SWPPP PLAN
C10.0-PH3	10/07/2020	A	SWPPP DETAILS
A-201O	10/07/2020	R	ARCHITECTURAL – EXTERIOR ELEVATIONS
A-110M	10/07/2020	R	ARCHITECTURAL - ENLARGED PLANS
A-111M	10/07/2020	R	ARCHITECTURAL - INTERIOR ELEVATIONS

Technical Specifications – (Project Manual)

Section No.	Revision Date	Status	Specification Title
n/a			

Additional Documents

Responses to Bidders Questions

Bid Form

This Addendum is hereby incorporated into the Contract Documents for the Project referenced above, modifying and superseding any previously issued Contract Documents. Bidders must acknowledge receipt of **Addendum 003** in the bid form.

THE COUNTY OF GALVESTON

RUFUS G. CROWDER, CPPO, CPPB
PURCHASING AGENT

GWEN MCLAREN, CPPB
ASST. PURCHASING AGENT

COUNTY COURTHOUSE
722 Moody (21st Street)
Fifth (5th) Floor
GALVESTON, TEXAS 77550

October 7, 2020

PROJECT NAME: **Galveston County Road & Bridge Facility Rebuild Project**

SOLICITATION NO: **B201044**

RE: **ADDENDUM #3**

To All Prospective Bidders:

The following information is being provided to aid in preparation of your bid submittal(s):

Question #1: ***I have not seen anything in the documents that the documents that discusses HUB and I wanted to know if HUB will be a requirement on this project?***

Response: **There is no HUB participation requirement on this project.**

Question #2: ***I'm having trouble locating the bid proposal form to list our proposing bid amount. I've searched the specs and all I see the proposal form located within the specs beginning on page 96. Could you please direct me where we are to list the proposed amount?***

Response: **The Bid Form is included within this addendum.**

Question #3: ***I have some questions about the Insulated Translucent Sandwich Panel Assemblies – Section 084500.***

1) ***Is Texas Department of Insurance – Windstorm compliance required for this project?***
2) ***The thermal performance has conflicting information. 1.2.H. A U-factor of 0.53 will not result in 0.28 SHGC.***
    a) ***With Crystal over Crystal face sheets, thermally broken system, U-factor of 0.51 will result in SHGC of 0.50. Other FPR combinations will yield different result.***
    b) ***U-factor with 0.27 U-factor will result in 0.23 SHGC.***
        1. ***Please advise which thermal performance is required from above values. I have attached the thermal performance chart with available information.***

Response: **1. Windstorm compliance is required.**
2. U-factor of 0.51 and SHGC of 0.50 will be acceptable for this installation.

Question #4: ***Is the Maintenance Shop building conditioned?***

Response: **The vehicle bay areas are not conditioned. Th interior spaces at plan-West are conditioned (Restroom, Break Room, Fleet Shop Admin, Fleet Shop Manager, Shop Foreman, IT/Storage, Open Area)**

Question #5: ***Is the Maintenance Shop building sprinklered?***

Response: **Yes, the Maintenance Shop building is sprinklered.**

Question #6: ***What Interior Finish Class is required at Maintenance Shop building (A, B, or C)?***

Response: **The Interior Finish Class is Class C in the admin side and Class B in the vehicle bays.**

Question #7: ***The specification indicates a missile impact rating which requires the .052" thick exterior face sheet when installed below 30'-0" from grade. Will the currently specified .070" exterior face sheet be updated to the .052" thick exterior face sheet to meet IBC code requirements?***

Response: **The 0.52" face sheet is a minimum thickness for this assembly. The 0.70" face sheet will exceed the specifications and is to remain.**

Question #8: ***Kalwall does not warranty an anodized finish. They do offer a superior KCRF coating, which can meet the warranty specifications. Are you open to a KCRF coating?***

Response: **KCRF coating is acceptable. Contractor shall provide sample of #79 Aluminum and #80 Gray.**

Question #9: ***On the drawing the translucent panels appear to have a trapezoidal shape. By changing them to a rectangular shape, you can incur cost savings. Are you open to changing the shape? Are you open to reducing the quantity of battens by maximizing panel lengths?***

Response: **The overall geometry of the panel assembly must remain. Changing them to rectangular shape is not acceptable. If the cost of the assembly can be reduced by reducing the number of battens, this will be acceptable.**

As a reminder, all questions regarding this bid must be submitted in writing to:

Rufus G. Crowder, CPPO CPPB
Galveston County Purchasing Agent
722 Moody, Fifth (5th) Floor
Galveston, Texas 77550
E-mail: purchasing.bids@co.galveston.tx.us

If you have any further questions regarding this bid, please address them to Rufus Crowder, CPPO CPPB, Purchasing Agent, via e-mail at purchasing.bids@co.galveston.tx.us, or contact the Purchasing Department at (409) 770-5371.

Please excuse us for any inconvenience that this may have caused.

Sincerely,

Rufus G. Crowder, CPPO CPPB
Purchasing Agent
Galveston County

RFP #B201044
Open 10/22/2020
Time: 2:00pm CT

Bid Form
Galveston County Road & Bridge Facility Rebuild Project

1. Instructions

a. The Bidder shall furnish necessary resources and services required to complete the project, in accordance with the scope of work and project specifications and drawings hereby incorporated and made a part of this RFP and the contract documents, for the prices listed below.

b. Having examined Proposal and Contract Documents, and having reviewed site conditions, the undersigned proposes to furnish all labor, equipment and materials and perform all work for the completion of the above-named project for the sum indicated below.

2. Base Bid

The Undersigned agrees to complete the work for the lump sum amount of:

_____Dollars (words)

$_____ (numbers)

The above represents a Total Proposed Price reflecting all project costs to successfully complete the project.

3. Contract Duration

The Undersigned proposes to commence work upon Notice to Proceed and be substantially complete within _____ calendar days.

4. **Owner/Client References** who can attest to the Bidder's capability to carry out the requirements set for the in this RFP:
    a. Reference #1
        i. Name and Title:_____
        ii. Organization:_____
        iii. Phone:_____
        iv. Email:_____
    b. Reference #2
        i. Name and Title:_____
        ii. Organization:_____
        iii. Phone:_____
        iv. Email:_____

c. Reference #3
   i. Name and Title:_____
   ii. Organization:_____
   iii. Phone:_____
   iv. Email:_____

5. **Subcontractor/Supplier References** who can attest to the Bidder's capability to carry out the requirements set for the in this RFP:
   a. Reference #1
      i. Name and Title:_____
      ii. Organization:_____
      iii. Phone:_____
      iv. Email:_____
   b. Reference #2
      i. Name and Title:_____
      ii. Organization:_____
      iii. Phone:_____
      iv. Email:_____
   c. Reference #3
      i. Name and Title:_____
      ii. Organization:_____
      iii. Phone:_____
      iv. Email:_____

6. Relevant Experience: Completed projects with similarities to this project**.**

   a. Project #1:
      i. Project Name:_____
      ii. Location:_____
      iii. Year completed:_____
      iv. Similarity to this project:_____
      _____
      _____

b. Reference #2:
   i. Project Name:_____
   ii. Location:_____
   iii. Year completed:_____
   iv. Similarity to this project:_____
   _____
   _____

c. Reference #3:
   i. Project Name:_____
   ii. Location:_____
   iii. Year completed:_____
   iv. Similarity to this project:_____
   _____
   _____

7. Bid Signature

By signing here, the firm attests that it has fully read the instructions, conditions and general provisions and understands them.

The information in this RFP is to be utilized solely for preparing the proposal response to this RFP and does not constitute a commitment by Galveston County to procure any product or service in any volume.

Name:_____

Title:_____

Company:_____

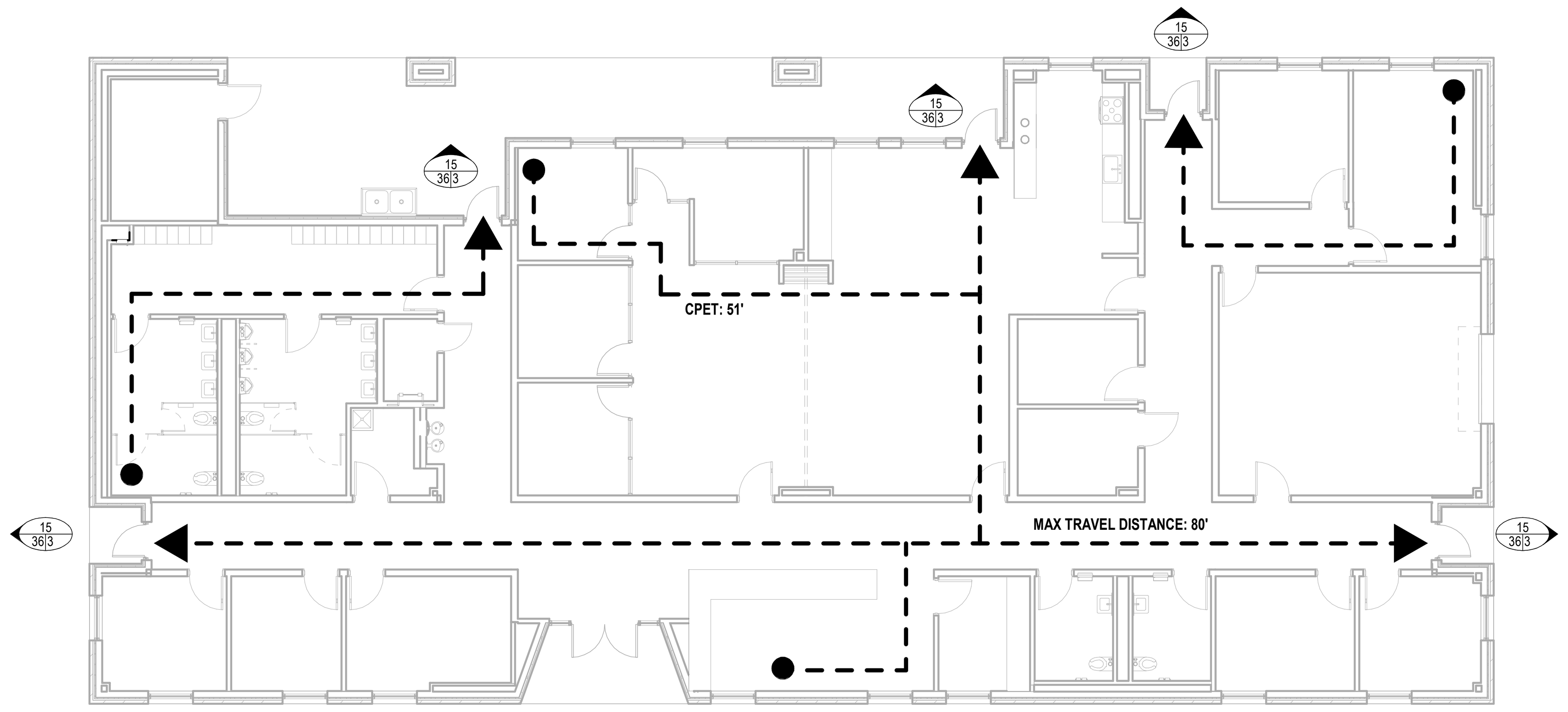
Company Address:_____

Company FEIN (TAX ID):_____

Phone Number:_____

Signature:_____

Date:_____



1 LIFE-SAFETY PLAN - OFFICE
SCALE: 3/32" = 1'-0"

LIFE-SAFETY ANALYSIS - OFFICE BUILDING

NET FLOOR AREA: 6,430 SF

GROSS FLOOR AREA: 7,230 SF

OCCUPANT LOAD (IBC 2015 TABLE 1004.1.2):

7,230 SF / 100 PERSONS PER SF = 73 OCCUPANTS

DOOR WIDTH REQUIRED: 73 X .2 = 15"

DOOR WIDTH PROVIDED: 36" + 36" + 36" + 36" + 72" = 216"

MAX TRAVEL DISTANCE ALLOWED (IBC 2015 TABLE 1017.2): 200'

MAX TRAVEL DISTANCE PROVIDED: 80'

PLUMBING ANALYSIS - OFFICE BUILDING

OCCUPANCY LOAD: 73 PERSONS ~ 37 MALES & 37 FEMALES

WATER CLOSETS REQUIRED (TABLE 2902.1): 2 FOR MALES, 2 FOR FEMALES

WATER CLOSETS PROVIDED: 5 FOR MALES, 2 FOR FEMALES, 2 UNISEX

LAVATORIES REQUIRED (TABLE 2902.1): 2 FOR MALES, 2 FOR FEMALES

LAVATORIES PROVIDED: 3 FOR MALES, 3 FOR FEMALES, 2 UNISEX

DRINKING FOUNTAINS REQUIRED (TABLE 2902.1): 1 TOTAL

DRINKING FOUNTAINS PROVIDED: 2 FOUNTAINS + 1 ICE/WATER DISPENSERS

CONSTRUCTION ANALYSIS - OFFICE BUILDING

OCCUPANCY CLASSIFICATION: GROUP B (IBC 2015 304.1)

CONSTRUCTION TYPE: IIB (IBC 2015 TABLE 601)

NOT SPRINKLED

0 HR FIRE RATING REQUIRED FOR ALL BUILDING ELEMENTS (IBC 2015 TABLE 601)

FIRE SEPARATION DISTANCE FROM NEAREST BUILDING: 61'

0HR FIRE RATING FOR EXTERIOR WALLS (IBC 2015 TABLE 602)

ALLOWABLE BUILDING HEIGHT (IBC 2015 TABLE 504.3): 55'

PROPOSED BUILDING HEIGHT: 21' - 3"

ALLOWABLE STORIES ABOVE GRADE (IBC 2015 TABLE 504.4): 3

PROPOSED STORIES ABOVE GRADE: 1

ALLOWABLE AREA FACTOR (IBC 2015 TABLE 506.2): 23,000

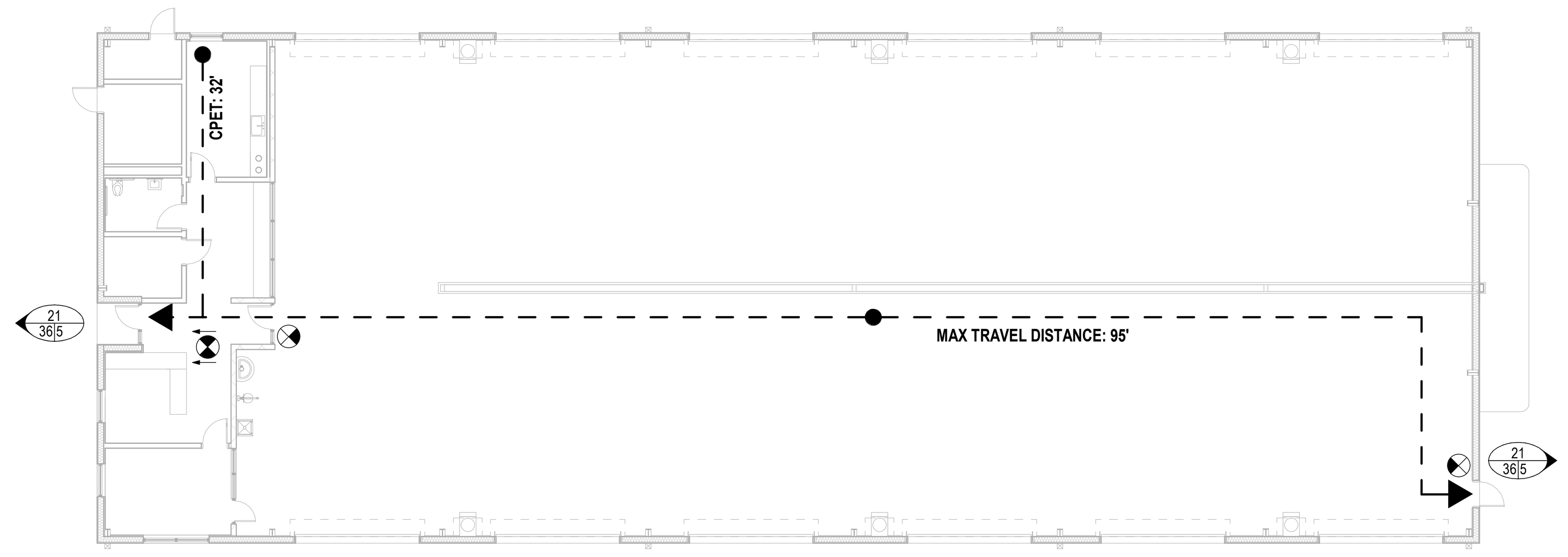
ALLOWABLE AREA FOR SINGLE-OCCUPANCY, ONE-STORY BUILDINGS (IBC 2015 506.2.1):
Aa = At + (NS x If)

INCREASE DUE TO FRONTAGE [If] (IBC 2015 506.3): 1

46,000 SF = 23,000 + (23,000 x 1)

PROPOSED BUILDING AREA: 7,230 SF

ALLOWABLE AREA OF UNPROTECTED OPENINGS (IBC 2015 TABLE 705.8): NO LIMIT



2 LIFE-SAFETY PLAN - MAINTENANCE SHOP
SCALE: 1/16" = 1'-0"

LIFE-SAFETY ANALYSIS - MAINTENANCE SHOP

GROSS FLOOR AREA: 10,400 SF

ADMIN OFFICE AREA: 1,230 SF - OCCUPANCY CLASSIFICATION: B

ADMIN OFFICE OCCUPANT LOAD (IBC 2015 TABLE 1004.1.2):

1,230 SF / 100 SF PER PERSON = 13 OCCUPANTS

VEHICLE MAINTENANCE SHOP AREA: 9,170 SF - OCCUPANCY CLASSIFICATION: S-1

VEHICLE MAINTENANCE SHOP OCCUPANT LOAD (IBC 2015 TABLE 1004.1.2):

9,170 SF / 200 SF PER PERSON = 46 OCCUPANTS

TOTAL BUILDING OCCUPANTS: 46 OCCUPANTS + 13 OCCUPANTS = 59 OCCUPANTS

DOOR WIDTH REQUIRED: 59 X .2 = 12"

DOOR WIDTH PROVIDED: 36" + 36" = 72"

MAX TRAVEL DISTANCE ALLOWED (IBC 2015 TABLE 1017.2): 200'

MAX TRAVEL DISTANCE PROVIDED: 88'

PLUMBING ANALYSIS - MAINTENANCE SHOP

OCCUPANCY LOAD: 59 PERSONS

WATER CLOSETS REQUIRED (TABLE 2902.1): 1 UNISEX

WATER CLOSETS PROVIDED: 1 UNISEX

LAVATORIES REQUIRED (TABLE 2902.1): 1 UNISEX

LAVATORIES PROVIDED: 1 UNISEX

SERVICE SINKS REQUIRED: 1

SERVICE SINKS PROVIDED: 1

DRINKING FOUNTAINS REQUIRED (TABLE 2902.1): 1

DRINKING FOUNTAINS PROVIDED: 1 ICE/WATER DISPENSER

CONSTRUCTION ANALYSIS - MAINTENANCE SHOP

OCCUPANCY CLASSIFICATION: GROUP S-1 (IBC 2015 311.2)

CONSTRUCTION TYPE: IIB (IBC 2015 TABLE 601)

SPRINKLED

0 HR FIRE RATING REQUIRED FOR ALL BUILDING ELEMENTS (IBC 2015 TABLE 601)

FIRE SEPARATION DISTANCE FROM NEAREST BUILDING: 30'

0HR FIRE RATING FOR EXTERIOR WALLS (IBC 2015 TABLE 602)

ALLOWABLE BUILDING HEIGHT (IBC 2015 TABLE 504.3): 75'

PROPOSED BUILDING HEIGHT: 38' - 3"

ALLOWABLE STORIES ABOVE GRADE (IBC 2015 TABLE 504.4): 3

PROPOSED STORIES ABOVE GRADE: 1

ALLOWABLE AREA FACTOR (IBC 2015 TABLE 506.2): 70,000

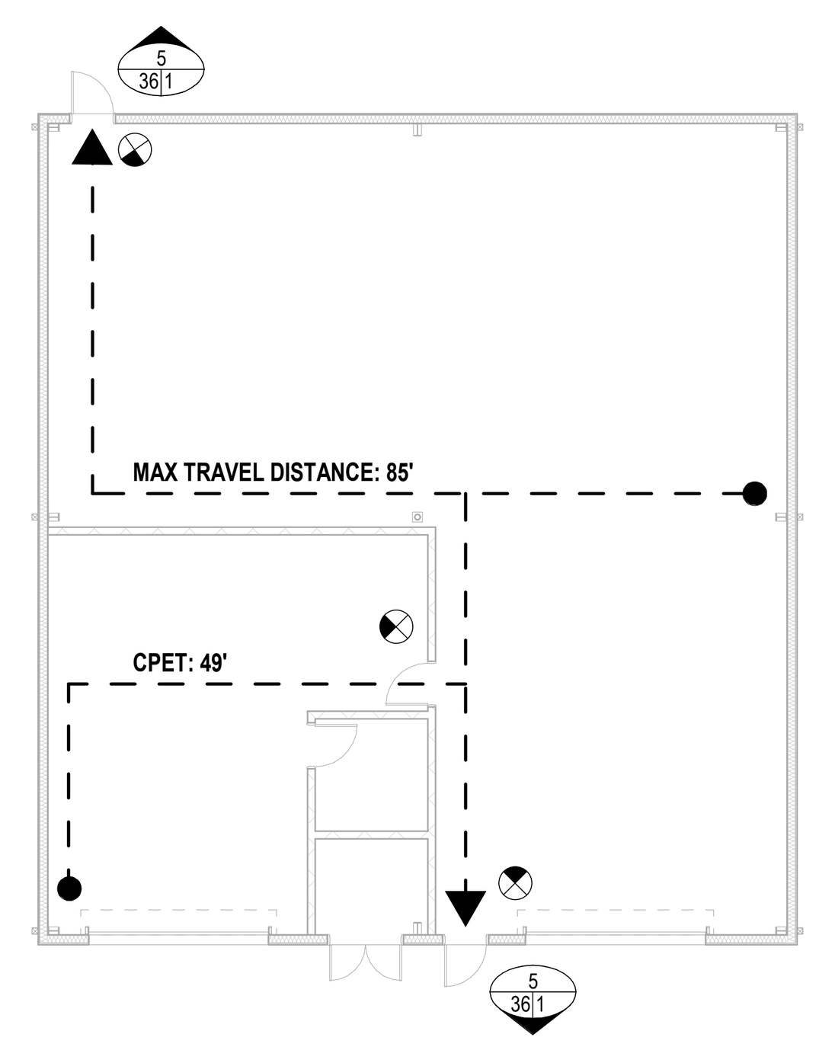
ALLOWABLE AREA FOR SINGLE-OCCUPANCY, ONE-STORY BUILDINGS (IBC 2015 506.2.1):
Aa = At + (NS x If)

INCREASE DUE TO FRONTAGE [If] (IBC 2015 506.3): 1

140,000 SF = 70,000 + (70,000 x 1)

PROPOSED BUILDING AREA: 10,400 SF

ALLOWABLE AREA OF UNPROTECTED OPENINGS (IBC 2015 TABLE 705.8): NO LIMIT



3 LIFE-SAFETY PLAN - WAREHOUSE
SCALE: 1/16" = 1'-0"

LIFE-SAFETY ANALYSIS - WAREHOUSE

GROSS FLOOR AREA: 4,380 SF

OCCUPANT LOAD (IBC 2015 TABLE 1004.1.2):

4,380 SF / 500 PERSONS PER SF = 9 OCCUPANTS

DOOR WIDTH REQUIRED: 9 X .2 = 2"

DOOR WIDTH PROVIDED: 36" + 36" = 72"

MAX TRAVEL DISTANCE ALLOWED (IBC 2015 TABLE 1017.2): 150'

MAX TRAVEL DISTANCE PROVIDED: 88'

PLUMBING ANALYSIS - WAREHOUSE

THE WAREHOUSE IS AN UNOCCUPIED BUILDING,
NO RESTROOMS ARE PROVIDED.

CONSTRUCTION ANALYSIS - WAREHOUSE

OCCUPANCY CLASSIFICATION: GROUP H-3 (IBC 2015 307.5)

CONSTRUCTION TYPE: IIB (IBC 2015 TABLE 601)

SPRINKLED

0 HR FIRE RATING REQUIRED FOR ALL BUILDING ELEMENTS (IBC 2015 TABLE 601)

FIRE SEPARATION DISTANCE FROM NEAREST BUILDING: 30'

0HR FIRE RATING FOR EXTERIOR WALLS (IBC 2015 TABLE 602)

ALLOWABLE BUILDING HEIGHT (IBC 2015 TABLE 504.3): 55'

PROPOSED BUILDING HEIGHT: 23' - 6"

ALLOWABLE STORIES ABOVE GRADE (IBC 2015 TABLE 504.4): 2

PROPOSED STORIES ABOVE GRADE: 1

ALLOWABLE AREA FACTOR (IBC 2015 TABLE 506.2): 14,000

ALLOWABLE AREA FOR SINGLE-OCCUPANCY, ONE-STORY BUILDINGS (IBC 2015 506.2.1):
Aa = At + (NS x If)

INCREASE DUE TO FRONTAGE [If] (IBC 2015 506.3): 1

28,000 SF = 14,000 + (14,000 x 1)

PROPOSED BUILDING AREA: 4,380 SF

LIFE-SAFETY LEGEND

- DIRECTION OF TRAVEL
- NUMBER OF OCCUPANTS
- EXIT WIDTH REQUIRED (IN INCHES)
- EXIT WIDTH PROVIDED (IN INCHES)
- PATH OF TRAVEL
- START POINT OF TRAVEL
- EXIT SIGN
- FEC — FIRE EXTINGUISHER CABINET
- CPET — COMMON PATH OF EGRESS TRAVEL

PROJECT DESCRIPTION

PROJECT NAME: GALVESTON COUNTY ROAD & BRIDGE DEPARTMENT HEADQUARTERS
PROJECT ADDRESS: 5115 TX-3, DICKINSON, TX 77539
OWNER: GALVESTON COUNTY

PROJECT DESCRIPTION:

PHASE 1 - SELECTIVE DEMOLITION OF STRUCTURES AND LANDSCAPING AT EXISTING CAMPUS FOR GALVESTON COUNTY ROAD & BRIDGE DEPARTMENT.

PHASE 2 - CONSTRUCTION OF NEW OFFICE BUILDING, NEW AUTOMOTIVE MAINTENANCE SHOP, NEW STORAGE WAREHOUSE, NEW COVERED WASHRACK AND NEW FUELAIR DISPENSORY BUILDINGS. SITE IMPROVEMENTS CONSIST OF SITE REGRADING, INSTALLATION OF NEW STORM DRAINAGE INFRASTRUCTURE, REPAVING AND RECURBING, NEW SITE LIGHTING, NEW SECURITY FENCING AND GATES, NEW LANDSCAPING AND A NEW SCREENED ENCLOSURE HOUSING A DUMPSTER, TRANSFORMER AND GENERATOR.

AUTHORITY HAVING JURISDICTION:

CITY OF DICKINSON, TX

APPLICABLE BUILDING CODES:

2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL PLUMBING CODE
2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATIONAL FIRE CODE
2014 NATIONAL ELECTRIC CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE
2015 INTERNATIONAL FUEL GAS CODE
2012 TEXAS ACCESSIBILITY STANDARDS
CITY OF DICKINSON CODE OF ORDINANCES

ARCHITECTURAL - INDEX OF DRAWINGS

SHEET NO	SHEET TITLE	ISSUE DATE ORIGINAL ISSUE	ISSUE DATE LAST REVISION
TELECOM - MAINTENANCE SHOP			
T-101M	TELECOM - REFLECTED CEILING PLAN & EQUIPMENT PLAN - MAINTENANCE SHOP	26 JUNE 2020	
T-401M	TELECOM - ENLARGED IT ROOM - MAINTENANCE SHOP	26 JUNE 2020	
AUDIOVISUAL - TYPICAL			
TA-001	AUDIOVISUAL - INDEX	26 JUNE 2020	
TA-501	AUDIOVISUAL - DETAILS	26 JUNE 2020	
TA-502	AUDIOVISUAL - DETAILS	26 JUNE 2020	
TA-503	AUDIOVISUAL - DETAILS	26 JUNE 2020	
TA-701	AUDIOVISUAL - SCHEMATICS	26 JUNE 2020	
AUDIOVISUAL - OFFICE			
TA-101O	AUDIOVISUAL - FLOOR PLAN & REFLECTED CEILING PLAN - OFFICE	26 JUNE 2020	
AUDIOVISUAL - MAINTENANCE SHOP			
TA-101M	AUDIOVISUAL - FLOOR PLAN - MAINTENANCE SHOP	26 JUNE 2020	
SECURITY - TYPICAL			
TY-001	SECURITY - INDEX	26 JUNE 2020	
TY-501	SECURITY - DETAILS	26 JUNE 2020	
TY-502	SECURITY - DETAILS	26 JUNE 2020	
SECURITY - SITE			
TY-101S	SECURITY - SITE PLAN	26 JUNE 2020	
SECURITY - OFFICE			
TY-101O	SECURITY - FLOOR PLAN - OFFICE	26 JUNE 2020	
SECURITY - MAINTENANCE SHOP			
TY-101M	SECURITY - FLOOR PLAN - MAINTENANCE SHOP	26 JUNE 2020	
Grand total: 230			

ARCHITECTURAL - INDEX OF DRAWINGS

SHEET NO	SHEET TITLE	ISSUE DATE ORIGINAL ISSUE	ISSUE DATE LAST REVISION
MECHANICAL - TYPICAL			
M-001	MECHANICAL - LEGENDS, ABBREVIATIONS, AND GENERAL NOTES	26 JUN 2020	
M-301	MECHANICAL - SECTIONS	26 JUN 2020	
M-501	MECHANICAL - DETAILS	26 JUN 2020	
M-502	MECHANICAL - DETAILS	26 JUN 2020	
M-503	MECHANICAL - DETAILS	26 JUN 2020	
M-601	MECHANICAL - SCHEDULES	26 JUN 2020	
M-611	MECHANICAL - AIRFLOW DIAGRAM	26 JUN 2020	
M-612	MECHANICAL - AIRFLOW DIAGRAM	26 JUN 2020	
M-621	MECHANICAL - PIPING DIAGRAM	26 JUN 2020	
M-622	MECHANICAL - PIPING DIAGRAM	26 JUN 2020	
M-623	MECHANICAL - GEOTHERMAL WATER DIAGRAM	26 JUN 2020	
MECHANICAL - SITE			
MS-101S	MECHANICAL - GEOTHERMAL SITE PLAN - SITE	26 JUN 2020	
MECHANICAL - OFFICE			
MH-101O	MECHANICAL HVAC PLAN - OFFICE - LEVEL 01	26 JUN 2020	
MH-102O	MECHANICAL HVAC PLAN - OFFICE - ROOF LEVEL	26 JUN 2020	
MP-101O	MECHANICAL PIPING PLAN - OFFICE - LEVEL 01	26 JUN 2020	
MP-102O	MECHANICAL PIPING PLAN - OFFICE - ROOF LEVEL	26 JUN 2020	
MZ-101O	MECHANICAL - ZONING PLAN - OFFICE - LEVEL 01	26 JUN 2020	
MECHANICAL - MAINTENANCE SHOP			
MH-101M	MECHANICAL HVAC PLAN - MAINTENANCE SHOP- LEVEL 01	26 JUN 2020	
MH-101M-A	MECHANICAL HVAC PLAN - MAINTENANCE SHOP - LEVEL 01 - AREA A	26 JUN 2020	
MH-101M-B	MECHANICAL HVAC PLAN - MAINTENANCE SHOP - LEVEL 01 - AREA B	26 JUN 2020	
MP-101M-A	MECHANICAL PIPING PLAN - MAINTENANCE SHOP - LEVEL 01 - AREA A	26 JUN 2020	
MP-101M-B	MECHANICAL PIPING PLAN - MAINTENANCE SHOP - LEVEL 01 - AREA B	26 JUN 2020	
MZ-101M	MECHANICAL - ZONING PLAN - MAINTENANCE SHOP - LEVEL 01	26 JUN 2020	
MECHANICAL - WAREHOUSE			
MH-101W	MECHANICAL HVAC PLAN - WAREHOUSE - LEVEL 01	26 JUN 2020	
MP-101W	MECHANICAL - PIPING PLAN - WAREHOUSE - LEVEL 01	26 JUN 2020	
MZ-101W	MECHANICAL - ZONING PLAN - WAREHOUSE - LEVEL 01	26 JUN 2020	
MECHANICAL-CONTROLS			
MI-001	MECHANICAL - INSTRUMENTATION AND CONTROLS - GENERAL INFORMATION	26 JUN 2020	
MI-601	MECHANICAL - INSTRUMENTATION AND CONTROLS - DIAGRAMS	26 JUN 2020	
MI-602	MECHANICAL - INSTRUMENTATION AND CONTROLS - DIAGRAMS	26 JUN 2020	
MI-603	MECHANICAL - INSTRUMENTATION AND CONTROLS - DIAGRAMS	26 JUN 2020	
MI-604	MECHANICAL - INSTRUMENTATION AND CONTROLS - DIAGRAMS	26 JUN 2020	
ELECTRICAL - TYPICAL			
E-001	ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES	26 JUNE 2020	
E-401	ELECTRICAL ENLARGED PLANS	26 JUNE 2020	
E-601	ELECTRICAL RISER DIAGRAM	26 JUNE 2020	
E-602	ELECTRICAL WIRE SCHEDULES - COPPER	26 JUNE 2020	
E-603	ELECTRICAL WIRE SCHEDULE - ALUMINUM	26 JUNE 2020	
E-610	ELECTRICAL PANEL SCHEDULES	26 JUNE 2020	
E-611	ELECTRICAL PANEL SCHEDULES	26 JUNE 2020	
EP-500	ELECTRICAL POWER DETAILS DETAILS	26 JUNE 2020	
EL-501	ELECTRICAL LIGHTING CONTROL DETAILS	26 JUNE 2020	
EL-502	ELECTRICAL LIGHTING CONTROL DETAILS	26 JUNE 2020	
EL-503	ELECTRICAL LIGHTING CONTROL DETAILS	26 JUNE 2020	
EL-504	ELECTRICAL LIGHTING CONTROL DETAILS	26 JUNE 2020	
EL-505	ELECTRICAL LIGHTING CONTROL DETAILS	26 JUNE 2020	
EL-506	ELECTRICAL LIGHTING CONTROL DETAILS	26 JUNE 2020	
EL-507	ELECTRICAL LIGHTING CONTROL DETAILS	26 JUNE 2020	
EL-508	ELECTRICAL LIGHTING CONTROL DETAILS	26 JUNE 2020	
EL-509	ELECTRICAL LIGHTING CONTROL DETAILS	26 JUNE 2020	
EL-601	ELECTRICAL LIGHTING SCHEDULE AND DETAILS	26 JUNE 2020	
EG-501	ELECTRICAL GROUNDING DETAILS	26 JUNE 2020	
EG-502	ELECTRICAL LIGHTNING PROTECTION DETAILS	26 JUNE 2020	
ELECTRICAL - SITE			
ES-101S	ELECTRICAL SITE PLAN	26 JUNE 2020	
ELECTRICAL - OFFICE			
EP-101O	ELECTRICAL POWER PLAN - OFFICE - LEVEL 01	26 JUNE 2020	
EL-101O	ELECTRICAL LIGHTING PLAN - OFFICE - LEVEL 1	26 JUNE 2020	
EL-102O	ELECTRICAL LIGHTING CONTROLS PLAN - OFFICE - LEVEL 1	26 JUNE 2020	
EG-101O	ELECTRICAL GROUNDING & LIGHTNING PROTECTION PLAN - OFFICE - ROOF LEVEL	26 JUNE 2020	
EQ-101O	ELECTRICAL EQUIPMENT PLAN - OFFICE - LEVEL 01	26 JUNE 2020	
EQ-102O	ELECTRICAL EQUIPMENT PLAN - OFFICE - ROOF LEVEL	26 JUNE 2020	
ELECTRICAL - MAINTENANCE SHOP			
EP-101M-A	ELECTRICAL POWER PLAN - SHOP - LEVEL 01 - AREA A	26 JUNE 2020	
EP-101M-B	ELECTRICAL POWER PLAN - SHOP - LEVEL 01 - AREA B	26 JUNE 2020	
EL-101M-A	ELECTRICAL LIGHTING PLAN - SHOP - LEVEL 01 - AREA A	26 JUNE 2020	
EL-101M-B	ELECTRICAL LIGHTING PLAN - SHOP - LEVEL 01 - AREA B	26 JUNE 2020	
EL-102M-A	ELECTRICAL LIGHTING CONTROLS PLAN - SHOP - LEVEL 01 - AREA A	26 JUNE 2020	
EL-102M-B	ELECTRICAL LIGHTING CONTROLS PLAN - SHOP - LEVEL 01 - AREA B	26 JUNE 2020	
EQ-101M-A	ELECTRICAL EQUIPMENT PLAN - SHOP - LEVEL 01 - AREA A	26 JUNE 2020	
EQ-101M-B	ELECTRICAL EQUIPMENT PLAN - SHOP - LEVEL 01 - AREA B	26 JUNE 2020	
EG-101M-A	ELECTRICAL GROUNDING & LIGHTNING PROTECTION PLAN - SHOP - LEVEL 01 - AREA A	26 JUNE 2020	
EG-101M-B	ELECTRICAL GROUNDING & LIGHTNING PROTECTION PLAN - SHOP - LEVEL 01 - AREA B	26 JUNE 2020	
ELECTRICAL - WAREHOUSE			
EP-101W	ELECTRICAL POWER PLAN - WAREHOUSE - LEVEL 01	26 JUNE 2020	
EL-101W	ELECTRICAL LIGHTING PLAN- WAREHOUSE - LEVEL 01	26 JUNE 2020	
EL-102W	ELECTRICAL LIGHTING CONTROLS PLAN - WAREHOUSE - LEVEL 01	26 JUNE 2020	
EG-101W	ELECTRICAL LIGHTNING PROTECTION PLAN - WAREHOUSE - ROOF LEVEL	26 JUNE 2020	
EQ-101W	ELECTRICAL EQUIPMENT PLAN - WAREHOUSE - LEVEL 01	26 JUNE 2020	
ELECTRICAL - WASHRACK & FUELAIR			
EP-101RF	ELECTRICAL PLAN - WASH RACK & FUELING STATION	26 JUNE 2020	
EG-101RF	ELECTRICAL GROUNDING & LIGHTNING PROTECTION PLAN	26 JUNE 2020	
FIRE ALARM - TYPICAL			
FA-001	FIRE ALARM - LEGENDS, ABBREVIATIONS, AND GENERAL NOTES	26 JUNE 2020	
FIRE ALARM - OFFICE			
FA-101O	FIRE ALARM PLAN - LEVEL 01 - OFFICE	26 JUNE 2020	
PLUMBING - TYPICAL			
P-001	PLUMBING - LEGENDS, ABBREVIATIONS, AND GENERAL NOTES	26 JUNE 2020	
P-501	PLUMBING - DETAILS	26 JUNE 2020	
P-601	PLUMBING - SCHEDULES	26 JUNE 2020	
PLUMBING - SITE			
P-101S	PLUMBING - SITE PLAN	26 JUNE 2020	
PLUMBING - OFFICE			
PU-101O	PLUMBING FLOOR PLAN - OFFICE - UNDERFLOOR	26 JUNE 2020	
P-101O	PLUMBING FLOOR PLAN - OFFICE - LEVEL 01	26 JUNE 2020	
P-102O	PLUMBING ROOF PLAN - OFFICE - ROOF LEVEL	26 JUNE 2020	
P-401O	PLUMBING - ENLARGED PLANS	26 JUNE 2020	
P-611O	PLUMBING - OFFICE RISERS	26 JUNE 2020	
PLUMBING - MAINTENANCE SHOP			
PU-101M - A	PLUMBING FLOOR PLAN - SHOP - UNDERFLOOR - AREA A	26 JUNE 2020	
PU-101M - B	PLUMBING FLOOR PLAN - SHOP - UNDERFLOOR - AREA B	26 JUNE 2020	
P-101M - A	PLUMBING FLOOR PLAN - SHOP - LEVEL 01 - AREA A	26 JUNE 2020	
P-101M - B	PLUMBING FLOOR PLAN - SHOP - LEVEL 01 - AREA B	26 JUNE 2020	
P-613M	PLUMBING - SHOP RISERS	26 JUNE 2020	
PLUMBING - WAREHOUSE			
PU-101W	PLUMBING FLOOR PLAN - WAREHOUSE - UNDERFLOOR	26 JUNE 2020	
P-101W	PLUMBING FLOOR PLAN - WAREHOUSE - LEVEL 01	26 JUNE 2020	
PLUMBING - WASHRACK & FUELAIR			
P-101FR	PLUMBING - FLOOR PLAN - WASH RACK/FUELAIR - LEVEL 01	26 JUNE 2020	
TELECOM - TYPICAL			
T-001	TELECOM - INDEX	26 JUNE 2020	
T-501	TELECOM - DETAILS	26 JUNE 2020	
T-502	TELECOM - DETAILS	26 JUNE 2020	
T-503	TELECOM - DETAILS	26 JUNE 2020	
TELECOM - SITE			
T-101S	TELECOM - SITE PLAN	26 JUNE 2020	
TELECOM - OFFICE			
T-101O	TELECOM - FLOOR PLAN & REFLECTED CEILING PLAN - OFFICE	26 JUNE 2020	
T-401O	TELECOM - ENLARGED MDF - OFFICE	26 JUNE 2020	

ARCHITECTURAL - INDEX OF DRAWINGS

SHEET NO	SHEET TITLE	ISSUE DATE ORIGINAL ISSUE	ISSUE DATE LAST REVISION
GENERAL			
G-000	COVER SHEET	26 JUNE 2020	
G-100	GENERAL - PROJECT DATA	26 JUNE 2020	07 OCT 2020
G-110	GENERAL - SCHEDULES	26 JUNE 2020	07 OCT 2020
CIVIL			
C-1.0	CIVIL - COVER SHEET	03 JULY 2020	REMOVED
C-2.0	CIVIL - SURVEY	03 JULY 2020	REMOVED
C-3.0	CIVIL - DEMOLITION PLAN	03 JULY 2020	REMOVED
C-4.0	CIVIL - PAVING PLAN	03 JULY 2020	REMOVED
C-5.0	CIVIL - LAYOUT PLAN	03 JULY 2020	REMOVED
C-6.0	CIVIL - GRADING PLAN	03 JULY 2020	REMOVED
C-7.0	CIVIL - UTILITY PLAN	03 JULY 2020	REMOVED
C-7.1	CIVIL - UTILITY PLAN	03 JULY 2020	REMOVED
C-8.0	CIVIL - GENERAL NOTES	03 JULY 2020	REMOVED
C-9.0	CIVIL - PAVEMENT DETAILS	03 JULY 2020	REMOVED
C-10.0	CIVIL - STORM DRAIN DETAILS	03 JULY 2020	REMOVED
C-11.0	CIVIL - WATER DETAILS	03 JULY 2020	REMOVED
C-12.0	CIVIL - SANITARY SEWER DETAILS	03 JULY 2020	REMOVED
C-13.0	CIVIL - SWPPP PLAN	03 JULY 2020	REMOVED
C-14.0	CIVIL - SWPPP DETAILS	03 JULY 2020	REMOVED
C-15.0	CIVIL - DRAINAGE PLAN	03 JULY 2020	REMOVED
C-16.0	CIVIL - DRAINAGE CALCULATIONS 2 YEARS (PROPOSED)	03 JULY 2020	REMOVED
C-17.0	CIVIL - DRAINAGE CALCULATIONS 100 YEARS (PROPOSED)	03 JULY 2020	REMOVED
C-18.0	CIVIL - DETENTION CALCULATIONS	03 JULY 2020	REMOVED
C-19.0	CIVIL - DETENTION POND CROSS SECTION	03 JULY 2020	REMOVED
C-20.0	CIVIL - MITIGATION PLAN	03 JULY 2020	REMOVED
C-21.0	CIVIL - MITIGATION PLAN - CUT AND FILL CALCULATIONS	03 JULY 2020	REMOVED
C-22.0	MITIGATION PLAN - CUT AND FILL PROFILES	03 JULY 2020	REMOVED
C-22.1	CIVIL - MITIGATION PLAN - CUT AND FILL PROFLIES	03 JULY 2020	REMOVED
C-23.0	CIVIL - IMPERVIOUS AREAS (EXISTING & PROPOSED)	03 JULY 2020	REMOVED
CIVIL - PHASE 1			
C1.0-PH1	CIVIL - COVER SHEET	07 OCT 2020	
C2.0-PH1	CIVIL - TOPOGRAPHIC SURVEY	07 OCT 2020	
C3.0-PH1	CIVIL - DEMOLITION PLAN	07 OCT 2020	
C4.0-PH1	CIVIL - PAVING PLAN	07 OCT 2020	
C5.0-PH1	CIVIL - LAYOUT PLAN	07 OCT 2020	
C6.0-PH1	CIVIL - GRADING PLAN	07 OCT 2020	
C7.0-PH1	CIVIL - UTILITY PLAN	07 OCT 2020	
C7.1-PH1	CIVIL - UTILITY PLAN	07 OCT 2020	
C8.0-PH1	CIVIL - GENERAL NOTES	07 OCT 2020	
C9.0-PH1	CIVIL - PAVEMENT DETAILS	07 OCT 2020	
C10.0-PH1	CIVIL - STOREM DRAIN DETAILS	07 OCT 2020	
C11.0-PH1	CIVIL - WATER DETAILS	07 OCT 2020	
C12.0-PH1	CIVIL - SANITARY SEWER DETAILS	07 OCT 2020	
C13.0-PH1	CIVIL - SWPPP PLAN	07 OCT 2020	
C14.0-PH1	CIVIL - SWPPP DETAILS	07 OCT 2020	
C15.0-PH1	CIVIL - DETENTION POND CROSS SECTION	07 OCT 2020	
C16.0-PH1	CIVIL - STORM SEWER PLAN & PROFILE	07 OCT 2020	
C17-PH1	CIVIL - WATER LINE PLAN AND PROFILE	07 OCT 2020	
CIVIL - PHASE 2			
C1.0-PH2	CIVIL - COVER SHEET	07 OCT 2020	
C2.0-PH2	CIVIL - TOPOGRAPHIC SURVEY	07 OCT 2020	
C3.0-PH2	CIVIL - DEMOLITION PLAN	07 OCT 2020	
C4.0-PH2	CIVIL - PAVING PLAN	07 OCT 2020	
C5.0-PH2	CIVIL - LAYOUT PLAN	07 OCT 2020	
C6.0-PH2	CIVIL - GRADING PLAN	07 OCT 2020	
C7.0-PH2	CIVIL - UTILITY PLAN	07 OCT 2020	
C7.1-PH2	CIVIL - UTILITY PLAN	07 OCT 2020	
C8.0-PH2	CIVIL - GENERAL NOTES	07 OCT 2020	
C9.0-PH2	CIVIL - PAVEMENT DETAILS	07 OCT 2020	
C10.0-PH2	CIVIL - STORM DRAIN DETAILS	07 OCT 2020	
C11.0-PH2	CIVIL - WATER DETAILS	07 OCT 2020	
C12.0-PH2	CIVIL - SANITARY SEWER DETAILS	07 OCT 2020	
C13.0-PH2	CIVIL - SWPPP PLAN	07 OCT 2020	
C14.0-PH2	CIVIL - SWPPP PLAN	07 OCT 2020	
CIVIL - PHASE 3			
C1.0-PH3	CIVIL - COVER SHEET	07 OCT 2020	
C2.0-PH3	CIVIL - TOPOGRAPHIC SURVEY	07 OCT 2020	
C3.0-PH3	CIVIL - DEMOLITION PLAN	07 OCT 2020	
C4.0-PH3	CIVIL - PAVING PLAN	07 OCT 2020	
C5.0-PH3	CIVIL - LAYOUT PLAN	07 OCT 2020	
C6.0-PH3	CIVIL - GRADING PLAN	07 OCT 2020	
C7.0-PH3	CIVIL - GENERAL NOTES	07 OCT 2020	
C8.0-PH3	CIVIL - PAVEMENT DETAILS	07 OCT 2020	
C9.0-PH3	CIVIL - SWPPP PLAN	07 OCT 2020	
C10.0-PH3	CIVIL - SWPPP DETAILS	07 OCT 2020	
LANDSCAPE			
LS-001	LANDSCAPE - LANDSCAPE PLAN	26 JUNE 2020	
LS-002	LANDSCAPE - LANDSCAPE DETAILS & SCHEDULES	26 JUNE 2020	
LS-003	LANDSCAPE - TREE PRESERVATION PLAN	26 JUNE 2020	
IR-001	LANDSCAPE - IRRIGATION PLANS	26 JUNE 2020	
IR-002	LANDSCAPE - TREE PRESERVATION PLAN	26 JUNE 2020	
IR-003	LANDSCAPE - IRRIGATION DETAILS & SCHEDULES	26 JUNE 2020	
ARCHITECTURAL - TYPICAL			
A-500	ARCHITECTURAL - DETAILS	26 JUNE 2020	
ARCHITECTURAL - SITE			
A-101S	ARCHITECTURAL - SITE PLANS	26 JUNE 2020	
A-400S	ARCHITECTURAL - SITE DETAILS	26 JUNE 2020	
ARCHITECTURAL - OFFICE			
A-101O	ARCHITECTURAL - CONSTRUCTION & ROOF PLANS	26 JUNE 2020	
A-102O	ARCHITECTURAL - REFLECTED CEILING & EQUIPMENT PLANS	26 JUNE 2020	
A-110O	ARCHITECTURAL - ENLARGED PLANS & ELEVATIONS	26 JUNE 2020	
A-201O	ARCHITECTURAL - EXTERIOR ELEVATIONS	26 JUNE 2020	07 OCT 2020
A-301O	ARCHITECTURAL - BUILDING & WALL SECTIONS	26 JUNE 2020	
A-501O	ARCHITECTURAL - DETAILS	26 JUNE 2020	
ARCHITECTURAL - MAINTENANCE SHOP			
A-101M	ARCHITECTURAL - CONSTRUCTION & ROOF PLANS	26 JUNE 2020	
A-102M	ARCHITECTURAL - REFLECTED CEILING & EQUIPMENT PLANS	26 JUNE 2020	
A-110M	ARCHITECTURAL - ENLARGED PLANS	26 JUNE 2020	07 OCT 2020
A-111M	ARCHITECTURAL - INTERIOR ELEVATIONS	26 JUNE 2020	07 OCT 2020
A-201M	ARCHITECTURAL - EXTERIOR ELEVATIONS	26 JUNE 2020	
A-301M	ARCHITECTURAL - BUILDING SECTIONS	26 JUNE 2020	
A-501M	ARCHITECTURAL - DETAILS	26 JUNE 2020	
ARCHITECTURAL - WAREHOUSE			
A-101W	ARCHITECTURAL - PLANS	26 JUNE 2020	
A-201W	ARCHITECTURAL - SECTIONS & ELEVATIONS	26 JUNE 2020	
ARCHITECTURAL - WASH RACK			
A-101R	ARCHITECTURAL - PLANS	26 JUNE 2020	
A-201R	ARCHITECTURAL - SECTIONS & ELEVATIONS	26 JUNE 2020	
ARCHITECTURAL - FUEL & AIR STATION			
A-101F	ARCHITECTURAL - PLANS, SECTION & ELEVATIONS	26 JUNE 2020	
STRUCTURAL - TYPICAL			
S-000	STRUCTURAL - STRUCTURAL GENERAL CRITERIA	26 JUNE 2020	
S-301	STRUCTURAL - DRILLED PIER SCHEDULE	26 JUNE 2020	
S-302	STRUCTURAL - COLUMN SCHEDULE AND DETAILS	26 JUNE 2020	
S-401	STRUCTURAL - TYPICAL FOUNDATION DETAILS	26 JUNE 2020	
S-402	STRUCTURAL - FOUNDATION DETAILS	26 JUNE 2020	
S-403	STRUCTURAL - FOUNDATION DETAILS	26 JUNE 2020	
S-501	STRUCTURAL - TYPICAL FOUNDATION DETAILS	26 JUNE 2020	
S-502	STRUCTURAL - FULL-HEIGHT DETAILS	26 JUNE 2020	
S-601	STRUCTURAL - TYPICAL LIGHT GUAGE DETAILS	26 JUNE 2020	
S-700	STRUCTURAL - BRACE ELEVATIONS & DETAILS	26 JUNE 2020	
STRUCTURAL - OFFICE			
S-101O	STRUCTURAL - FOUNDATION PLAN - OFFICE	26 JUNE 2020	
S-102O	STRUCTURAL - ROOF FRAMING PLAN - OFFICE	26 JUNE 2020	
STRUCTURAL - MAINTENANCE SHOP			
S-101M	STRUCTURAL - FOUNDATION PLAN - MAINTENANCE SHOP	26 JUNE 2020	
STRUCTURAL - WAREHOUSE			
S-101W	STRUCTURAL - FOUNDATION PLAN - WAREHOUSE	26 JUNE 2020	
STRUCTURAL - WASHRACK			
S-101R	STRUCTURAL - FOUNDATION AND FRAMING PLAN - WASHRACK	26 JUNE 2020	
STRUCTURAL - FUELAIR			
S-101F	STRUCTURAL - FOUNDATION PLAN - FUELAIR	26 JUNE 2020	

Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City /
San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities
5115 TX-3
Dickinson, TX 77539

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	Addendum No. 03	07 OCT 2020
1	Revision 1	Date 1

PROFESSIONAL SEALS
Firm Registration No. 15868
Page Southerland Page, Inc.
REGISTERED ARCHITECT
WENDY TEAS HEGER
16677
STATE OF TEXAS
10/07/2020

GENERAL - PROJECT DATA

DRAWN BY: WJC	CHECKED BY: ST
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 26 JUNE 2020

G-100
SHEET NUMBER

FILE PATH
USER NAME: C:\Users\vgandhi\Documents\418198-A-R19-CENTRAL-SITE_vgandhiV3V3P.rvt
DATE STAMP: 10/7/2020 6:17:44 PM

DOOR SCHEDULE - OFFICE

Door Number	Door Type	Door Overall Width	Door Height	Door Thickness	Door Material	Door Finish	Frame Material	Frame Jamb	Frame Head	Fire Rating	Hardware Set	Comments
O1	BBX	6' - 0"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	CW714AM	
O3	A	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	501	
O4	A	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	341	
O5	A	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	341	
O6	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	201	
O7	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	103	
O8	BX	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	CW715A	
O9A	A	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	HM	7/A-510	10/A-510	NR	501	
O9B	A	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	HM	7/A-510	10/A-510	NR	501	
O9C	CX	8' - 0"	10' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
O10	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	103	
O11	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	103	
O12	BX	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	CW715A	
O13	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	401	
O14	A	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	HM	7/A-510	10/A-510	NR	201	
O15	A	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	HM	7/A-510	10/A-510	NR	201C	
O16A	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	701	
O16B	BX	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	CW715A	
O17	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	507	
O18	B	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	103A	
O19	B	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	103A	
O20	B	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	103A	
O21	B	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	103A	
O23	AX	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-5	HM	EXT	EXT	NR	CW715	INSULATED
O24	BX	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	CW715A	
O25	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	801	
O26	A	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	801L	
O27	A	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	801L	
O28	BX	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	CW715A	
O29	A	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	HM	7/A-510	10/A-510	NR	201	
O30	A	2' - 6"	7' - 0"	0' - 1 3/4"	HM	PAINT	HM	7/A-510	10/A-510	NR	201C	
O31	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	103	
O32	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	103	
O33	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	403	

DOOR SCHEDULE - MAINTENANCE SHOP

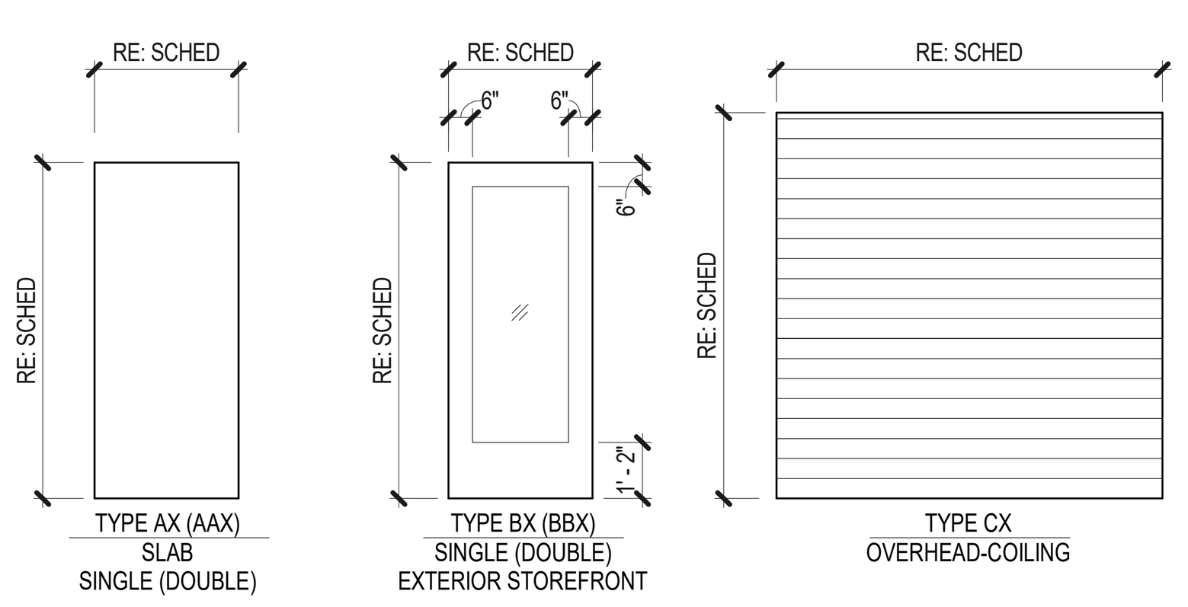
M1A	BX	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	CW715A	
M1B	BX	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	705AG	
M3A	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	103	
M3B	BX	2' - 8"	7' - 0"	0' - 1 3/4"	ALUM	CLR ANOD	ALUM	BY MANUF	BY MANUF	NR	501ACG	
M4	A	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	HM	7/A-510	10/A-510	NR	201C	
M5	A	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	341	
M6	D	3' - 0"	7' - 0"	0' - 1 3/4"	SCW	PLAM	HM	7/A-510	10/A-510	NR	401	
M7	AX	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-5	HM	EXT	EXT	NR	W715	INSULATED
M8	AX	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-5	HM	EXT	EXT	NR	W205	INSULATED
MB1	CX	15' - 0"	10' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
MB2	CX	15' - 0"	10' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
MB3	CX	15' - 0"	10' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
MB4	CX	15' - 0"	10' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
MB5	CX	15' - 0"	15' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
MB6	CX	15' - 0"	15' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
MB7	CX	15' - 0"	15' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
MB8	CX	15' - 0"	15' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
MB9	CX	15' - 0"	15' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
MB10	CX	15' - 0"	15' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
MB11	CX	15' - 0"	15' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
MB12A	CX	15' - 0"	15' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
MB12B	AX	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-5	HM	EXT	EXT	NR	CW715Q	INSULATED

DOOR SCHEDULE - WAREHOUSE

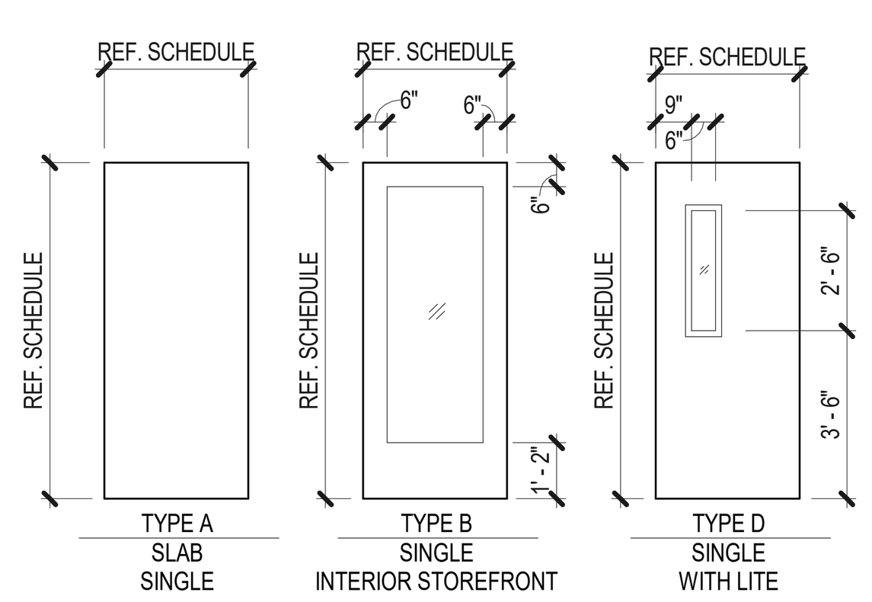
W1	AAX	6' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-5	HM	EXT	EXT	NR	W214	INSULATED
W2	A	3' - 6"	7' - 0"	0' - 1 3/4"	HM	PT-5	HM	8/A-501	11/A-501	NR	201W	
W3A	CX	15' - 0"	10' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
W3B	A	3' - 6"	7' - 0"	0' - 1 3/4"	HM	PT-5	HM	8/A-501	11/A-501	NR	201GW	
W4A	AX	3' - 6"	7' - 0"	0' - 1 3/4"	HM	PT-5	HM	EXT	EXT	NR	CW205W	INSULATED
W4B	CX	15' - 0"	10' - 0"	0' - 2"	BY MANUF	BY MANUF	BY MANUF	BY MANUF	BY MANUF	NR	001	INSULATED
W6	AX	3' - 6"	7' - 0"	0' - 1 3/4"	HM	PT-5	HM	EXT	EXT	NR	W205WQ	INSULATED

DOOR SCHEDULE - WASHRACK

R4	AX	4' - 0"	7' - 0"	0' - 1 3/4"	HM	PT-5	HM	8/A-501	11/A-501	NR	CW205Q	

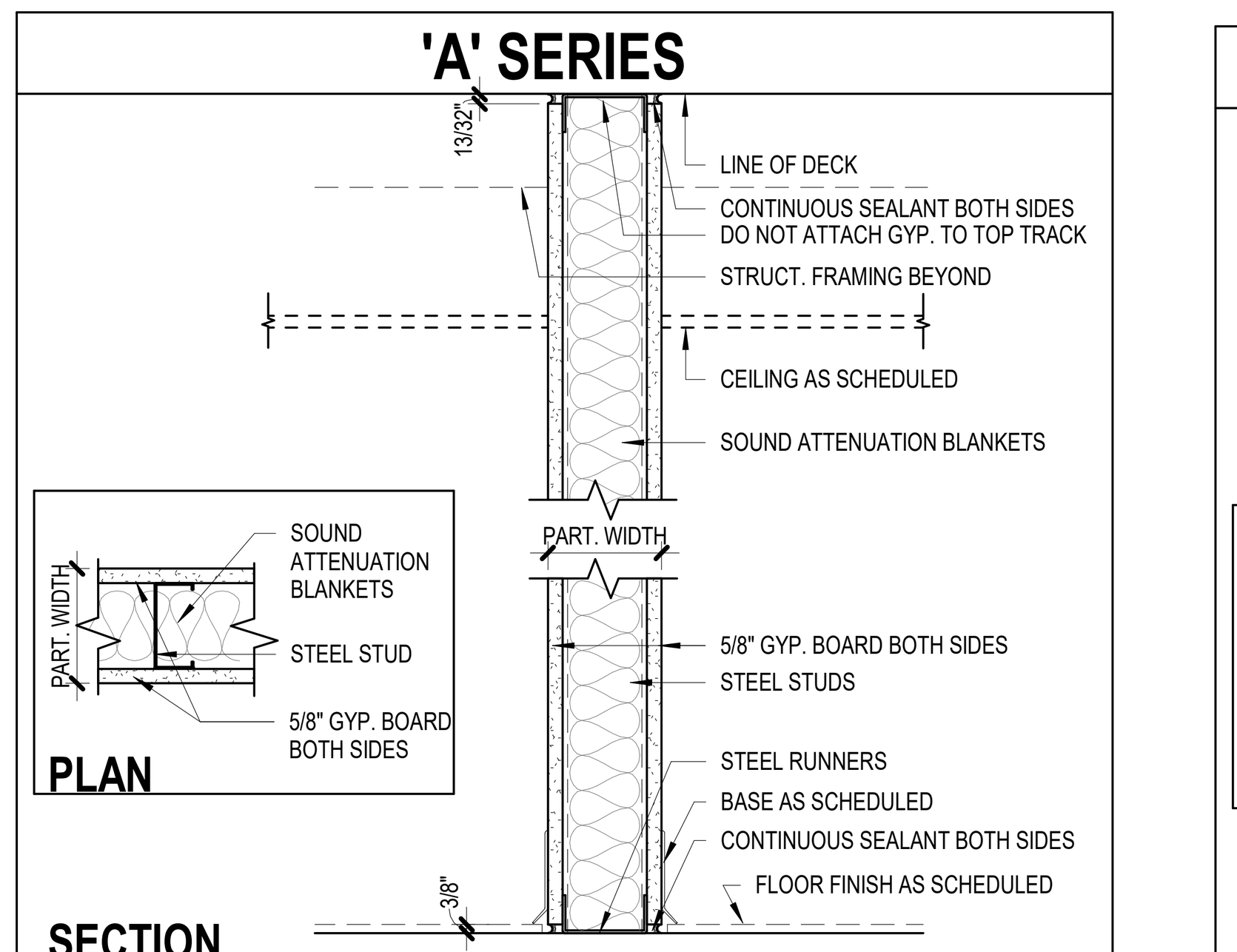


1 **EXTERIOR DOOR TYPES**
SCALE: 1/4" = 1'-0"



2 **INTERIOR DOOR TYPES**
SCALE: 1/4" = 1'-0"

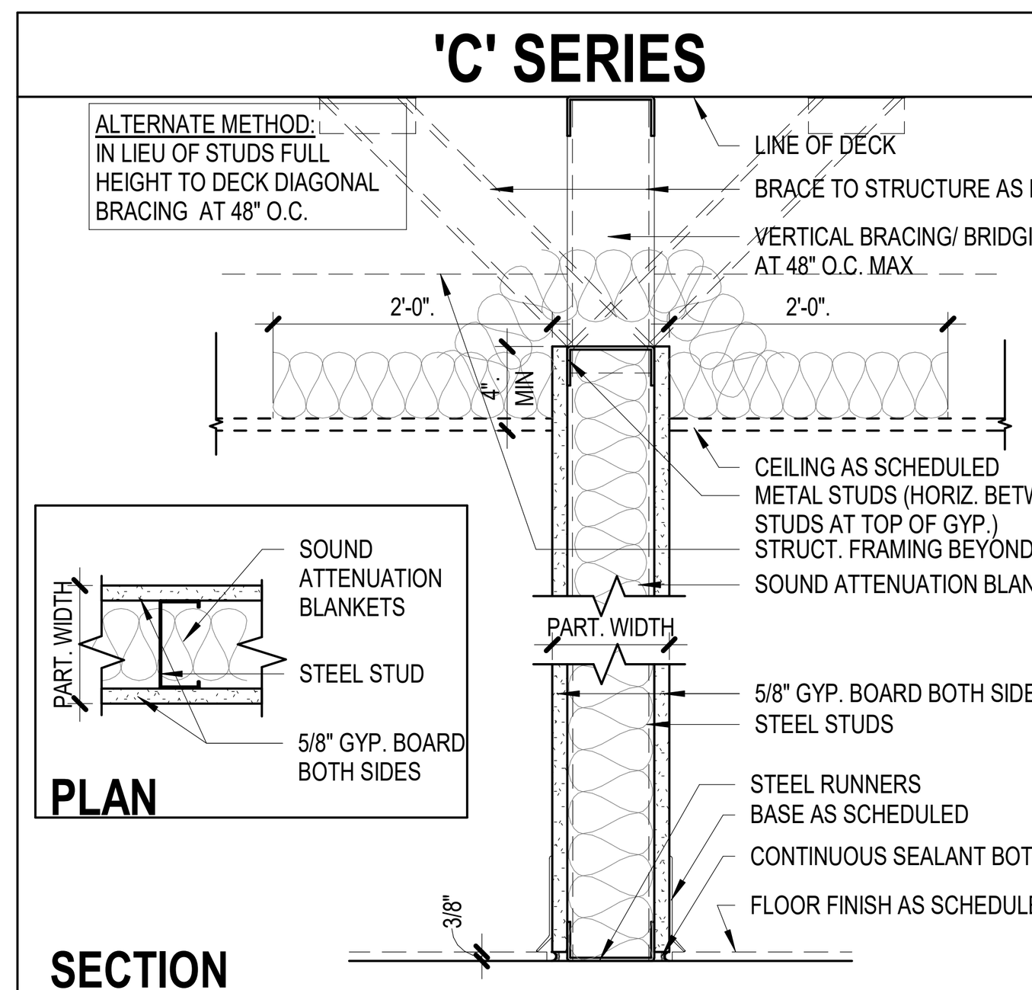
'A' SERIES



TYPE	STUD	PART. WIDTH	MAX. HEIGHT 25 GA.	MAX. HEIGHT 20 GA.		DESIGN STC MIN STC	DESIGN STC INSUL	EST STC W/O INSUL
A3	3 5/8"	4 7/8"	14' - 4"	15' - 8"		40	3 1/2"	40
A6	6"	7 1/4"	19' - 9"	23' - 2"		40	3 1/2"	40
A6	8"	9 1/4"	23' - 9"	27' - 2"		40	3 1/2"	40

LIMITING HEIGHTS BASED ON ASTM; L/240; 5 PSF

'C' SERIES



TYPE	STUD	PART. WIDTH	MAX. HEIGHT 25 GA.	MAX. HEIGHT 20 GA.		DESIGN STC MIN STC	DESIGN STC INSUL	EST STC W/O INSUL
C3	3 5/8"	4 7/8"	12' - 4"	14' - 11"		40	3 1/2"	40
C6	6"	7 1/4"	15' - 9"*	21' - 7"		40	3 1/2"	40

LIMITING HEIGHTS BASED ON SSMA/SFIA; L/240; 5 PSF
*ADD WEB STIFFENERS

Galveston Road and Bridge Fueling Overview

Two aboveground storage tanks (AST) will store diesel and gasoline products. Gasoline and diesel will be transferred to a fuel island where two dispensers will be installed in order to dispense gasoline and diesel from each dispenser. Piping, for aboveground applications, will include schedule 40 black iron-pipe and galvanized pipe. The vent pipe will be 3" galvanized. The piping for the Fill and vapor recovery will be 3" black iron. The fuel transfer piping will be 2" black iron piping. Both the diesel and gasoline piping will run from their respective submersible pump into the top of one transition sump which will be located within/under the tank pad (not on the drive). At the transition sump the steel pipe will terminate into a 2" EZ flex connector that will then be connected to the electrofusion piping system for the underground application. Electrofusion piping will be 2" in diameter. Both the diesel and gasoline fuel lines will exit the transition sump and terminate in the underground dispenser sumps (UDC) at the fuel island. Dispenser sumps will be piped with EZ flex connectors and 1-1/2" double poppet shear valves.

Tanks will be 10,000 gallon each. Insulated Fireguard, double-wall (DW) and manufactured by Modern Welding of Texas or equal.

The diesel tank will have; 4-4" CPLG x 5" LG. Fittings for Vent, ATG Probe, Submersible pump and Expansion relief valve; 1-6" SCH. 40 Pipe (T.O.E.)- for Fill; 2-8" Flanged Fittings-Primary Tank Emergency Vent and Outer Tank Emergency Vent (Modern will supply the Morrison vents -part number 2440F) ,1-2" CPLG X 5" LG; 1-20" Manway-for access; 1-2" SCH. 40 pipe-for Interstitial monitor, 2-Saddles-welded to tank; 1-18" wide ladder for observation only-welded to clips.

The gasoline tank will have; 5-4" CPLG x 5" LG. Fittings for Vapor Recovery, Vent, ATG Probe, Submersible pump and Expansion relief valve; 1-6" SCH. 40 Pipe (T.O.E.)- for Fill; 2-8" Flanged Fittings-for Primary Tank Emergency Vent and Outer Tank Emergency Vent (Modern will supply the Morrison vents -part number 2440F) ,1- 2" CPLG X 5" LG; 1-20" Manway-for access; 1-2" SCH. 40 pipe-for Interstitial monitor, 2-Saddles-welded to tank; 1-18" wide ladder for observation only-welded to clips.

Tank Hardware will be manufactured by Morrison Bros. Co. or equal.

Diesel Tank Hardware required will be supplied by Morrison:

QTY			
			Remote fill, diesel:
1	715--TT3-3MBB-0	3" - 10 Gal.	Top connection w/3" AL male QD adaptor, BR ball valve, hand pump
1	715---S400 AS		Four-leg Stand for 715 10 Gallon Remote Fill Box, Powder Coated Steel
			Overfill prevention, diesel:
1	285---2800 AS	3" w/100 Mesh	Line Strainer, Bottom Clean-out
1	9095AA3300AVEVR	3"	Pressure Fill Overfill Prevention Valve, Aluminum Body with 3" Female Threaded x 6" Female Threaded Connections, CARB EVR
1	9095ATM0100 AM	2" & 3"	Manual Test Mechanism 9095A, B & AA (Does Not Include Valve Top)
1	419---03081TEVR	3" x 7'-9"	Aluminum Drop Tube - CARB EVR Approved, (1 per carton)
1	539AS-0300 AD	3"	Diffuser, Slip-on
			Venting - Emergency & Normal, diesel:
2	244OF-0100 AV	8" 8oz/sq.in.	Emergency Vent - Flanged, w/O-Ring, UL & ULC Listed
1	354---0300 AV	3"	Updraft Vent
			Dispensing, diesel:
1	535BDI0300 AV	2"	Gate Valve w/Expansion Relief, Ductile Iron, Locking
1	346DI-0500 AV	2"	External Emergency Valve, Ductile Iron
1	285---2600 AS	2" w/100 Mesh	Line Strainer, Bottom Clean-out
1	7102080200 1V	2"	Solenoid Valve (FKM) w/208 Volt AC Coil
1	076DI-0200 AV	.5"	Expansion Relief Valve (50 PSI Setting)
1	691---0800 1V	2"	Full Port, Forged Brass, Ball Valve

Gasoline Tank Top Hardware Supplied by Morrison:

QTY			
			Remote fill, gasoline:
1	715--TT3-3MBB-0	3" - 10 Gal.	Top connection w/3" AL male QD adaptor, BR ball valve, hand pump
1	715---S400 AS		Four-leg Stand for 715 10 Gallon Remote Fill Box, Powder Coated Steel
			Vapor Recovery, gasoline:
1	715---VR30 AK	3"	Vapor Recovery Kit, Includes Cap, Adaptor & 2 clamps
1	323---0100 AA	4" x 3"	Vapor Recovery Adaptor (4" Vapor, 3" Riser Thread)
1	323C--0100ACEVR	4"	Vapor Recovery Cap, CARB EVR Approved
			Overfill prevention, gasoline:
1	285---2800 AS	3" w/100 Mesh	Line Strainer, Bottom Clean-out
1	9095AA3300AVEVR	3"	Pressure Fill Overfill Prevention Valve, Aluminum Body with 3" Female Threaded x 6" Female Threaded Connections, CARB EVR
1	9095ATM0100 AM	2" & 3"	Manual Test Mechanism 9095A, B & AA (Does Not Include Valve Top)
1	419---03081TEVR	3" x 7'-9"	Aluminum Drop Tube - CARB EVR Approved, (1 per carton)
1	539AS-0300 AD	3"	Diffuser, Slip-on
			Venting - Emergency & Normal, gasoline:
2	244OF-0100 AV	8" 8oz/sq.in.	Emergency Vent - Flanged, w/O-Ring, UL & ULC Listed
1	748A--3300 AV	3" 6oz/sq.in	Pressure Vacuum Vent, Brass Internals
			Dispensing, gasoline:
1	535BDI0300 AV	2"	Gate Valve w/Expansion Relief, Ductile Iron, Locking
1	346DI-0500 AV	2"	External Emergency Valve, Ductile Iron
1	285---2600 AS	2" w/100 Mesh	Line Strainer, Bottom Clean-out
1	7102080200 1V	2"	Solenoid Valve (FKM) w/208 Volt AC Coil
1	076DI-0200 AV	.5"	Expansion Relief Valve (50 PSI Setting)
1	691---0800 1V	2"	Full Port, Forged Brass, Ball Valve

Fuel Transfer equipment will be manufactured by Franklin Fueling Systems or equal.

2	402903924		STPKMVS2-VL2-24 (2hp variable speed submersible pump)
2	5874202800		MAG VFC Variable Frequency Controller
2	5800300100		STP-DHI- 120V UNIT Dispenser Hook Isolation
1	403168901		STP-MLD+G, SGL, GAS (mechanical leak detector)
1	403170901		STP-MLD+D, SGL, DIESEL (mechanical leak detector)

Electronic Monitoring of Inventory and leak detection will be manufactured by Morrison Bros. Co or equal.

QTY			Electronic Tank Monitoring with Liquid Level, Interstitial, Transition and Dispenser Sump Sensors
1	1218C-0200 AC		System Console monitors up to 2 tanks
2	1218S-2510 AS	25'	Tank Level Sensor, Drop Tube (4" tank opening is required)
2	419---0300 1T	4" x 10'	Aluminum Drop Tube (1 per carton)
1	1218C-6600 AM		External Input/output Expansion Module
1	1218S-2544 CC	100'	100' spool Belden 7933A cable
5	924LS-0150 AS	15'	Liquid sensor with 15' lead wire
2	305XP-2200 AC	2"	Tank Monitor Cap w/Port Hole & Cable Connector 3/8"
2	1218C-0163 2C		Wireless Client

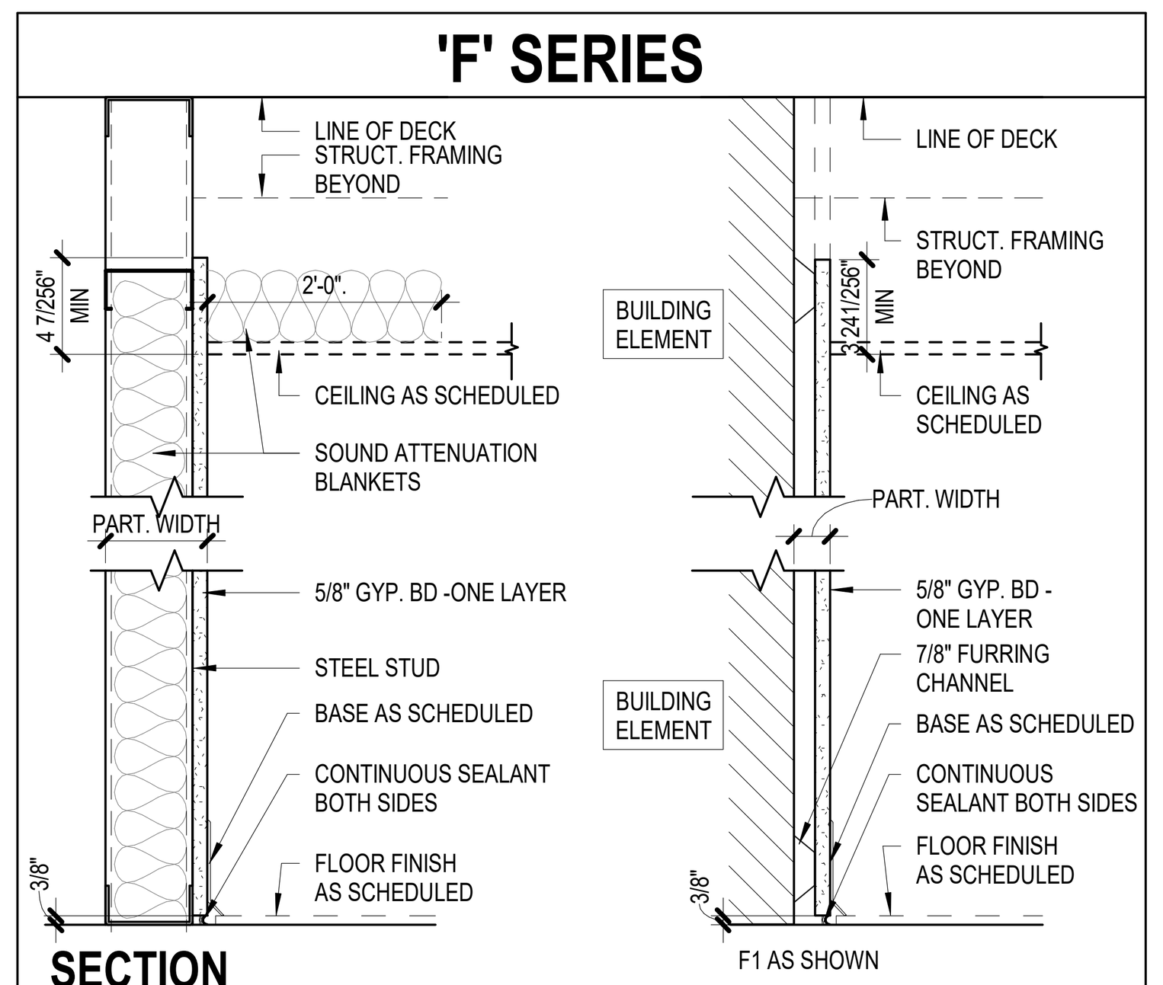
Underground Piping system will include parts and accessories manufactured by Bravo and Franklin Fueling Systems or equal.

QTY			BRAVO
2	B1210-S0		Single wall fiberglass UDC for Wayne Select dispenser (quantity depends on number of dispensers-this qty is based on two dispensers).
4	BK-1015		Boss-Mount bracket for B1000 and stabilizer bar
1	B601-S-220		Single wall FRP vent / transition sump with 2, 2" AST fittings
1	EO-EBS		Electrical off set on the vent / sump box
1	RS-501		Small Rack for 2" pipelines
	-		
	-		Franklin Fueling System piping parts and service station hardware parts for installation in dispenser sumps (UDC) and transition sump
	-		Quantity of piping and parts depends on how contractor lays out site install and how many dispensers will be on site.
	001-075-063-033PSE		Pipe, UPP, Double Wall, 33-foot sick
	03-063-EIF-U		Elbow, 90°, electrofusion, 2"
	04-063-EIF-U		Elbow 45°, electrofusion, 2"
	08.063-EIF-U		Tee, electrofusion,2"
	02-063-L-U		Welding Socket, 2", Long
	49-075-063TP1-U		Reducer, Electrofusion, 2" DW/2"Primary, w/Test Port
	FEB-075-M		Entry Seal, Fiberglass, 2" DW/2" Primary
	E3-502-201		E32 Equivalent
	Fiberglas-Kit		Polyester Resin Kit, 3, RS,1PUT
	G3-075-063-U		Elbow, 90°, electrofusion, Gemini 2"
	G4-075-063-U		Elbow 45°, electrofusion, Gemini 2"
	GB-075-063-U		Tee, electrofusion, Gemini 2"
	02-75SC-U		Socket, Welding-UPP, 2" SC
	90-063 QL-U		Quick release termination fitting for 2" UPP pipe
	662501902		1-1/2" double poppet shear valve, female
	FF15X18HMXEZ		1-1/2" flexible connector, EZ FIT flange X Hex Male
	EZ Clamp		EZ Fit Clamp
	407493002		2" EZ FIT gasket (one per connection)

Dispensers will be manufactured by Dover Fuel Systems or equal. Hanging Hardware will be manufactured by Husky or equal.

	-		Dispenser will be manufactured by Dover Fuel Systems
	3/G7203D/29GHJKUY/		Each Dispenser includes: Twin, Two Product, Remote Dispenser, Island Oriented, Enhanced Capacity, E25 Compatibility, Internal Filter, Pulse Output Interface Board, Explosion Proof J-Box, Hose Hanger, iMeter2, Select Gen2, electromechanical Totalizer per Hose, Proportional Solenoid Valve and WM002290 Remote Control (1per 5 dispensers). Standard one-year warranty. Unit of Measure: Gallons; Ad Panels: Regular Unleaded / Diesel; Finish: Painted Silver w/ Standard Blue Doors.
	-		
	-		Hanging Hardware for dispensers will be manufactured by Husky
	Husky 010673		9" whip-hose, 3/4" X 9-foot hose, breakaway, swivel, nozzle (two hoses per dispenser)

'F' SERIES



TYPE	STUD	PART. WIDTH	MAX. HEIGHT 25 GA.	MAX. HEIGHT 20 GA.	DESIGN NO.	DESIGN STC MIN STC	DESIGN STC INSUL	EST STC W/O INSUL
F1	7/8"	1 1/2"	6'- 11"	8' - 2"	N/A	-	-	-
F2	2 1/2"	3 1/8"	9' - 7"	11' - 3"	N/A	-	2 1/2"	-
F3	3 5/8"	4 1/4"	12' - 4"	14' - 11"	N/A	-	3 1/2"	-
F6	6"	6 5/8"	15' - 9"*	21' - 7"	N/A	-	3 1/2"	-

LIMITING HEIGHTS BASED ON SSMA / SFIA; L/240; 5 PSF
* ADD WEB STIFFENERS

EQUIPMENT SCHEDULE - BREAKROOMS

ITEM	DESCRIPTION	MANUFACTURER	MODEL	NOTES
EQB1	REFRIGERATOR / FREEZER	GENERAL ELECTRIC	GNE29GYNFS	
EQB2	COUNTERTOP MICROWAVE	GENERAL ELECTRIC	PRB9159SJSS	
EQB3	UNDERCOUNTER DISHWASHER	GENERAL ELECTRIC	GDP645SYNFS	
EQB4	COFFE MACHINE	BY VENDOR	BY VENDOR	NIC
EQB5	ELECTRIC RANGE	GENERAL ELECTRIC	PB930SLSS	
EQB6	VENT HOOD	GENERAL ELECTRIC	JV936DSS	RE: MECH
EQB7	UNDERCOUNTER ICE MACHINE	HOSHIZAKI	C-101BAH-ADDS	RE: PLUMBING
EQB8	OUTDOOR ICE MACHINE	HOSHIZAKI	KM-301BWJ	RE: PLUMBING

EQUIPMENT SCHEDULE - RESTROOMS

ITEM	DESCRIPTION	MANUFACTURER	MODEL	NOTES
EQC1	RECESSED MULTI-ROLL TOILET TISSUE DISPENSER	BOBRICK	B-6977	
EQC2	GRAB BAR 36"	BOBRICK	B-6806.99x36	PEENED FINISH
EQC3	GRAB BAR 42"	BOBRICK	B-6806.99x42	PEENED FINISH
EQC4	SURFACE-MOUNTED TOILET TISSUE DISPENSER WITH SHELF	BOBRICK	B-2840	
EQC5	MIRROR	BOBRICK	B-290 2436	
EQC6	SURFACE-MOUNTED HANDS-FREE SOAP DISPENSOR	BOBRICK	B-2012	
EQC7	RECESSED PAPER TOWEL DISPENSER AND WASTE BIN	BOBRICK	B-3942	

EQUIPMENT SCHEDULE - MAINTENANCE SHOP

ITEM	DESCRIPTION	MANUFACTURER	MODEL	NOTES
EQM1	2-POST LIST - 12,000#	CHALLENGER LIFTS	CL12	
EQM2	4-POST LIFT - 15,000#	CHALLENGER LIFTS	4015XFX	
EQM3	MOBILE COLUMN LIFT - 14,000#	CHALLENGER LIFTS	CLHM-140	
EQM4	HOSE-REEL STAND	BALCRANK	2230-029	
EQM5	275 GAL NEW FLUID TANK WITH PUMP	CONTAINMENT SOLUTION INC		
EQM6	500 GAL USED FLUID TANK WITH PUMP	CONTAINMENT SOLUTION INC		
EQM7	7.5 HP 150 GAL DUPLEX AIR COMPRESSOR	CHAMPION	HR7DF-12	
EQM8	NEW OIL PUMP	BALCRANK	1130-020	PAIRS WITH EQM5
EQM9	USED OIL PUMP	BALCRANK	1121-024	PAIRS WITH EQM4
EQM10	HOSE REEL AIR/WATER	BALCRANK	2120-020	
EQM11	HOSE REEL OIL	BALCRANK	2120-013	
EQM12	ELECTRICAL CORD REEL	SAFLITE	4050-3600	

EQUIPMENT SCHEDULE - FUELAIR

ITEM	DESCRIPTION	MANUFACTURER	MODEL	NOTES
EQF1	10,000 GALLON INSULATED FIREGUARD DOUBLEWALL STORAGE TANK	MODERN	SEE ADJACENT NARRATIVE	GASOLINE
EQF2	10,000 GALLON INSULATED FIREGUARD DOUBLEWALL STORAGE TANK	MODERN	SEE ADJACENT NARRATIVE	DIESEL
EQF3	FUEL DISPENSER	DOVER FUEL SYSTEMS	SEE ADJACENT NARRATIVE	
EQF4	FUEL CONTROLLER	MULTIFORCE	FF814	

EQUIPMENT SCHEDULE - WASHRACK

ITEM	DESCRIPTION	MANUFACTURER	MODEL	NOTES
EQR1	PRESSURE WASHER	ALKLEAN	ALKHEO30050E4G	SEE SPECIFICATIONS
EQR2	SIMPLEX AIR COMPRESSOR	CHAMPION	VR5-8	SEE SPECIFICATIONS
EQR3	TRENCH DRAIN ASSEMBLY	ALKLEAN	SEE SPECIFICATIONS	
EQR4	DETERGENT TANK	ALKLEAN	SEE SPECIFICATIONS	
EQR5	WASHRACK ASSEMBLY	ALKLEAN	SEE SPECIFICATIONS	

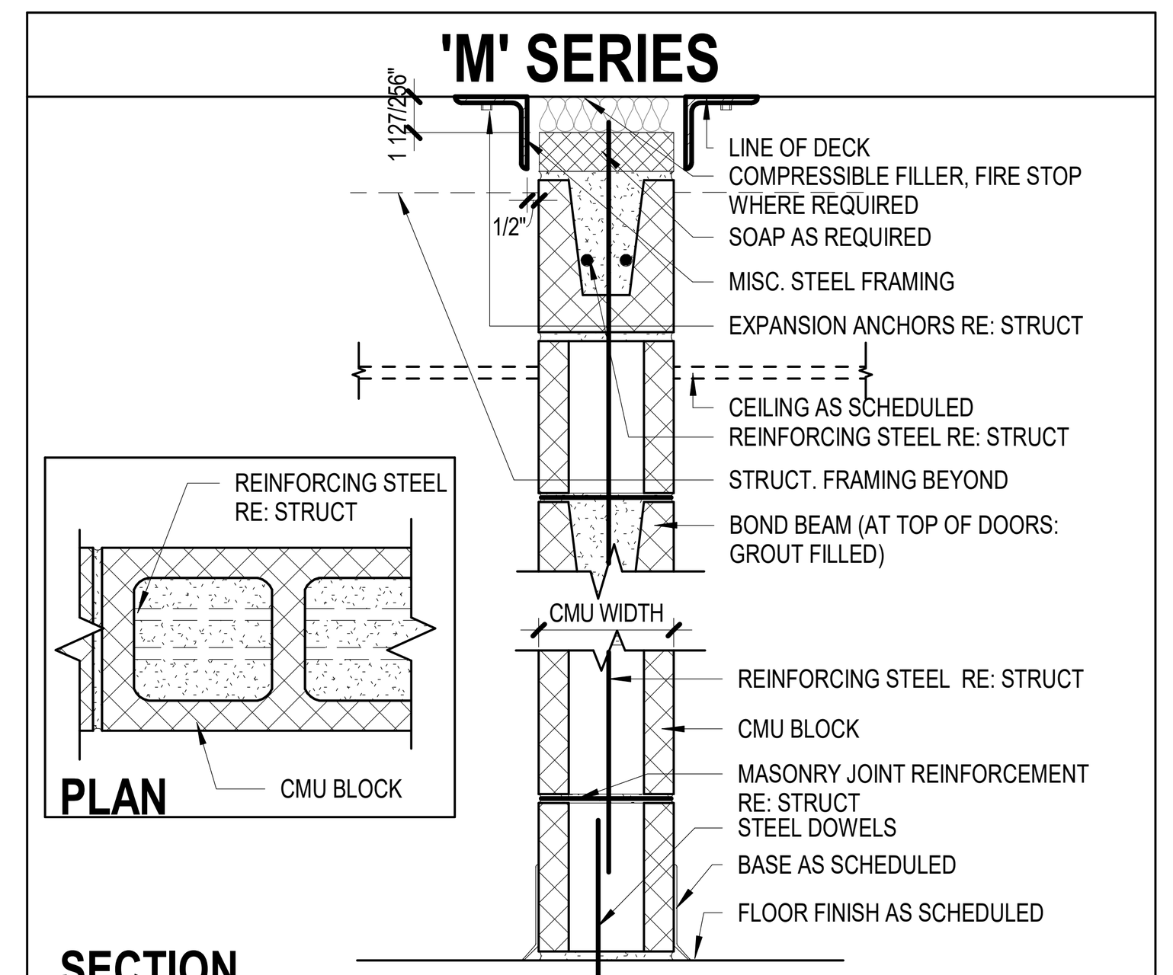
FINISH SCHEDULE

ITEM	MATERIAL	MANUFACTURER	STYLE	COLOR	SIZE
ACP-1	CEILING PANEL	ARMSTRONG	FINE FISSURE WITH HIGH NRC TEGULAR EDGE	WHITE	24" x 24"
ACT-1	CEILING GRID	ARMSTRONG	PRELUDE 15/16" EXPOSED TEE SYSTEM	WHITE	24" x 24"
B-1	WALL BASE	ROPPE	SIMPLICITY	WHITE	4"
B-2	WALL BASE	ROPPE	SIMPLICITY	WHITE - FIELD PAINTED PT-2	4"
B-3	WALL BASE	ROPPE	SIMPLICITY	WHITE - FIELD PAINTED PT-3	4"
CPT-1	CARPET TILE	J+J FLOORING	FAST TRACK 7578	3215 CHASE	18" x 36"
PCT-1	PORCELAIN TILE	DALTILE	SEASON WOOD	SW02 WINTER SPRUCE	6" x 48"
PCT-2	PORCELAIN TILE	DALTILE	DIGNITARY	DR10	12" x 24"
PCT-3	PORCELAIN TILE	DALTILE	LINEAR 0190	ARCTIC WHITE	4" x 8"
PCT-4	PORCELAIN TILE	DALTILE	LINEAR 0190	DESERT GREY	4" x 8"
PL-1	PLASTIC LAMINATE	FORMICA	912-AN - INFINITI FINISH	STORM	N/A
PL-2	PLASTIC LAMINATE	FORMICA	927-58 - MATTE FINISH	FOLKSONE	N/A
PT-1	PAINT	SHERWIN WILLIAMS	SW7636	ORIGAMI WHITE	N/A
PT-2	PAINT	SHERWIN WILLIAMS	SW6804	DIGNITY BLUE	N/A
PT-3	PAINT	SHERWIN WILLIAMS	SW7075	WEB GRAY	N/A
SC-1	SEALED CONCRETE	EUCLID	SUPER AQUA CORE VOX	CLEAR	N/A
SC-2	SEALED CONCRETE	EUCLID	EVERCLEAR	CLEAR	N/A
SC-3	SEALED CONCRETE	STONEHARD SOLUTIONS	STONECLAD GS WITH STONEKOTE GS4	GREY	N/A
SS-1	SOLID SURFACE	CAESARSTONE	SOLID SURFACE	5110 ALPINE MIST	3cm
SS-2	SOLID SURFACE	CAESARSTONE	SOLID SURFACE	4004 RAW CONCRETE	3cm
VCT-1	STATIC DISSAPATIVE TILE	ARMSTRONG	PREMIUM EXCELON CROWN TEXTURE	5C240 PEAT	12" x 12"
VCT-2	VINYL COMPOSITION TILE	ARMSTRONG	EXCELON SDT 51959	COAL	12" x 12"

FINISH SCHEDULE

ITEM	MATERIAL	MANUFACTURER	STYLE	COLOR	SIZE
BR-1	STANDARD MODULAR BRICK	ENDICOT	SMOOTH MODULAR	MEDIUM IRONSPOT 46	3-5/8" x 2 1/4" x 7 5/8"
BR-2	STANDARD MODULAR BRICK	ENDICOT	VELOUR MODULAR	DARK IRONSPOT	3-5/8" x 2 1/4" x 7 5/8"
BR-3	STANDARD MODULAR BRICK	CLOUD CERAMICS	VELOUR MODULAR	CLOUD GREY	3-5/8" x 2 1/4" x 7 5/8"
MS-1	FLAT-FACE CMU	UPCHURCH KIMBROUGH	CMU WITH INTEGRAL COLOR	130 COAL	8" x 8" x 16"
MS-2	SPLIT-FACE CMU	UPCHURCH KIMBROUGH	CMU WITH INTEGRAL COLOR	130 COAL	8" x 8" x 16"
MS-3	CAST-STONE COPING	N/A	CAST-STONE WITH INTEGRAL COLOR	MATCH MS-1	N/A
MT-1	PEMB WALL PANEL	RIGID GLOBAL BUILDINGS	REVERSED "M" WALL PANEL - VERTICAL ORIENTATION	SPECTRALITE 3000 - STONE GRAY	36" OC
MT-2	PEMB SHEETMETAL FLASHING & TRIM	RIGID GLOBAL BUILDINGS	PEMB SHEET METAL, FLASHING AND TRIM	SPECTRALITE 3000 - SLATE GRAY	N/A
MT-3	PEMB ROOFING	RIGID GLOBAL BUILDINGS	PBM ROOF PANEL	SPECTRALITE 3000 - SANDSTONE	36" OC
MT-4	SHEET METAL FLASHING & TRIM	BERRIDGE	N/A	PREWEATHERED GALVALUME	N/A
MT-5	STOREFRONT FINISH	KAWNEER	CLEAR ANODIZED	CLEAR ANODIZED	N/A
MT-6	PREFINISHED METAL PANEL	BERRIDGE	"M" PANEL	PREWEATHERED GALVALUME	36" OC
PT-5	PAINT	SHERWIN WILLIAMS	SW 7068	GRIZZLE GRAY	N/A
WD-1	WOOD COMPOSITE LAP PANELING	NEWTECHWOOD	ULTRASHIELD WITH NATURALE	SMOKE WHITE	US09 PROFILE

'M' SERIES



TYPE	CMU WIDTH	HEIGHT	2 OR 3 HOUR DESIGN NO.	MIN. STC GROUT	MIN. STC HOLLOW
1M8	7 5/8" (8" NOMINAL)	RE: STRUCT	UL-U904 (3- HR)	50	45

PARTITION GENERAL NOTES

1. ALL NEW INTERIOR PARTITIONS SHOWN ON THE FLOOR PLANS ARE TYPE 'A3', UNLESS NOTED OTHERWISE.
2. PARTITION TYPE REFERENCES ARE INDICATED ON THE FLOOR PLANS.
3. PARTITION TYPES DO NOT DETERMINE EXTERIOR WALL CONSTRUCTION. REFER TO WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.
4. ALL PARTITIONS THAT EXTEND FROM FLOOR TO THE UNDERSIDE OF DECK ABOVE SHALL HAVE THEIR PERIMETER AND ALL PENETRATIONS SEALED SMOKETIGHT WITH ACOUSTICAL SEALANT, AS APPLICABLE.
5. WHERE CERAMIC TILE, PORCELAIN PAVERS, QUARRY TILE, TERRAZZO OR CEMENT ARE INDICATED TO BE APPLIED TO PARTITIONS AS A BASE OR WALL FINISH SURFACE, REPLACE THE GWB WITH 5/8" TILE BACKER BOARD THAT HAS BEEN TESTED AND CERTIFIED TO BE EQUIVALENT IN FIRE RATING TO THE GWB WHICH THEY REPLACE. THE SCHEDULED FIRE RATING OF ANY PARTITION SHALL NOT BE VIOLATED BY THE APPLICATION OF ANY FINISHES. ALSO USE L/360 DEFLECTION CRITERIA AND 20 GAUGE MINIMUM FRAMING AT THESE LOCATIONS.
6. FLOOR TO FLOOR DIMENSIONS MAY VARY. REFER TO BUILDING SECTIONS, WALL SECTIONS, AND OTHER CONTRACT DRAWINGS FOR DETERMINING FLOOR TO FLOOR DIMENSIONS.
7. CEILING HEIGHTS MAY VARY ON EITHER OR BOTH SIDES OF THE PARTITION. REFER TO FLOOR PLANS, REFLECTED CEILING PLANS AND CEILING DETAILS FOR CEILING HEIGHTS.
8. METAL STUDS SHALL BE SPACED AT 16" O.C. MAXIMUM, UNLESS NOTED OTHERWISE. LIGHT GAUGE METAL FRAMING STUDS SPACED AT 16" O.C. MAXIMUM SHALL BE USED WHERE SPECIFIED OR DETAILED. RESILIENT CHANNELS AND FURRING CHANNELS SPACED 24" O.C. VERTICALLY MAX. 4" MAX FROM TOP AND BOTTOM ENDS.
9. ALL STEEL STUDS ARE CONTINUOUS FROM FLOOR TRACK TO BOTTOM OF DECK ABOVE, UNLESS NOTED OTHERWISE. ALLOW FOR DEFLECTION WITH TOP TRACK ASSEMBLY.
10. COLD FORMED METAL FRAMING SHALL BE USED IN LIEU OF STEEL STUDS WHERE REQUIRED TO MAINTAIN STUD WIDTH INDICATED ON THE DRAWINGS.
11. ALL GYPSUM BOARD IS TO BE 5/8" THICK UNLESS NOTED OTHERWISE.
12. PARTITION TYPE REFERENCES DO NOT INCLUDE THE APPLIED FINISHES INDICATED BY THE ROOM FINISH REFERENCE AND ROOM FINISH SCHEDULE.
13. REFER TO PARTITION DETAILS, DOOR INFORMATION, AND DOOR DETAILS FOR FRAMING AND ANCHORAGE AT DOORS.
14. INSTALL DOUBLE 20 GA. STUDS AT ALL OPENINGS, HEADS, SILLS, JAMBS UNLESS NOTED OTHERWISE AT MINIMUM.
15. REFER TO SYMBOLS ON PLAN FOR FLOOR PLAN INDICATION OF CHANGES IN PARTITION TYPE.
16. ALL JOINTS IN GYPSUM BOARD SURFACES TO BE TAPED AND FLOATED, INCLUDING RATED PARTITIONS, UNRATED PARTITIONS, EXPOSED SURFACES, CONCEALED SURFACES, AND SURFACES ABOVE THE CEILINGS.
17. ALL SOUND ATTENUATION BLANKETS SHALL BE CONTINUOUS FOR THE FULL HEIGHT OF PARTITION AND FULL WIDTH OF THE PARTITION, UNLESS OTHERWISE NOTED.
18. PARTITION TYPES AND DETAILS SHOWN HEREIN ARE TYPICAL. WHERE PARTITION TYPES OR DETAILS VARY ONLY SLIGHTLY FROM THE TYPICAL, THE ABBREVIATION "SIM" SHALL BE USED ADJACENT TO THE PARTITION TYPE REFERENCE OR DETAIL REFERENCE. PARTITIONS OR DETAILS NOT SIMILAR SHALL BE CONSTRUCTED IN A LOGICAL MANNER USING THE PRINCIPLES EVIDENT IN THE TYPICAL PARTITION TYPES AND DETAILS, AND IN ACCORDANCE WITH SPECIFICATION SECTIONS.
19. STC RATING SHOWN IN PARTITION TABLES ARE TAKEN FROM MANUF. PRODUCT LITERATURE. ADDITIONAL STC INFORMATION IS AVAILABLE THROUGH ADDITIONAL RESOURCES.
20. PARTITIONS SHALL HAVE MECH. AND ELEC. DEVICES SEALED WITH PUTTY PACKS FOR WALLS THAT EXCEED STC 45.

PARTITION REFERENCES

1. SSMA - STEEL STUD MANUFACTURERS ASSOCIATION, "PRODUCT TECHNICAL INFORMATION," COPYRIGHT 2010.
2. SFIA - STEEL FRAMING INDUSTRY ASSOCIATION, "TECHNICAL GUIDE FOR COLD-FORMED STEEL FRAMING," COPYRIGHT 2011.
3. ASTM - ASTM INTERNATION DESIGNATION C754-08, "STANDARD SPECIFICATION FOR INSTALLATION OF STEEL FRAMING MEMBERS TO RECEIVE SCREW-ATTACHED GYPSUM PANEL PRODUCTS."
4. GA - GYPSUM ASSOCIATION, "FIRE RESISTIVE DESIGN MANUAL," 19TH EDITION GA-600-2009.
5. UL - UNDERWRITER'S LABORATORIES, "BUILDING MATERIALS, FIRE PROTECTION, ROOFING MATERIALS AND SYSTEMS AND FIRE RESISTANCE DIRECTORIES (4 VOLUMES)," 2011 EDITION.
6. WHI-WARNOCK HERSEY MARK DIRECTORY
7. ICBO- ICBO EVALUATION SERVICES, INC. EVALUATION REPORT No. 3579
8. SAFB- MANUFACTURER THERMAFIBER PRODUCT: SOUND ATTENUATION FIRE BLANKET.

GENERAL NOTES

1. RE: SPEC SECTION 08 71 00 (DOOR HARDWARE) FOR DOOR HARDWARE SETS.

2. FOR MAINTENANCE SHOP EQUIPMENT CONTACT THE FOLLOWING REP FOR PRICING:

JON THORNTON
VSA MANUFACTURER'S REPRESENTATIVE
JTHORNTON@VSAREPS.COM
281.744.6223

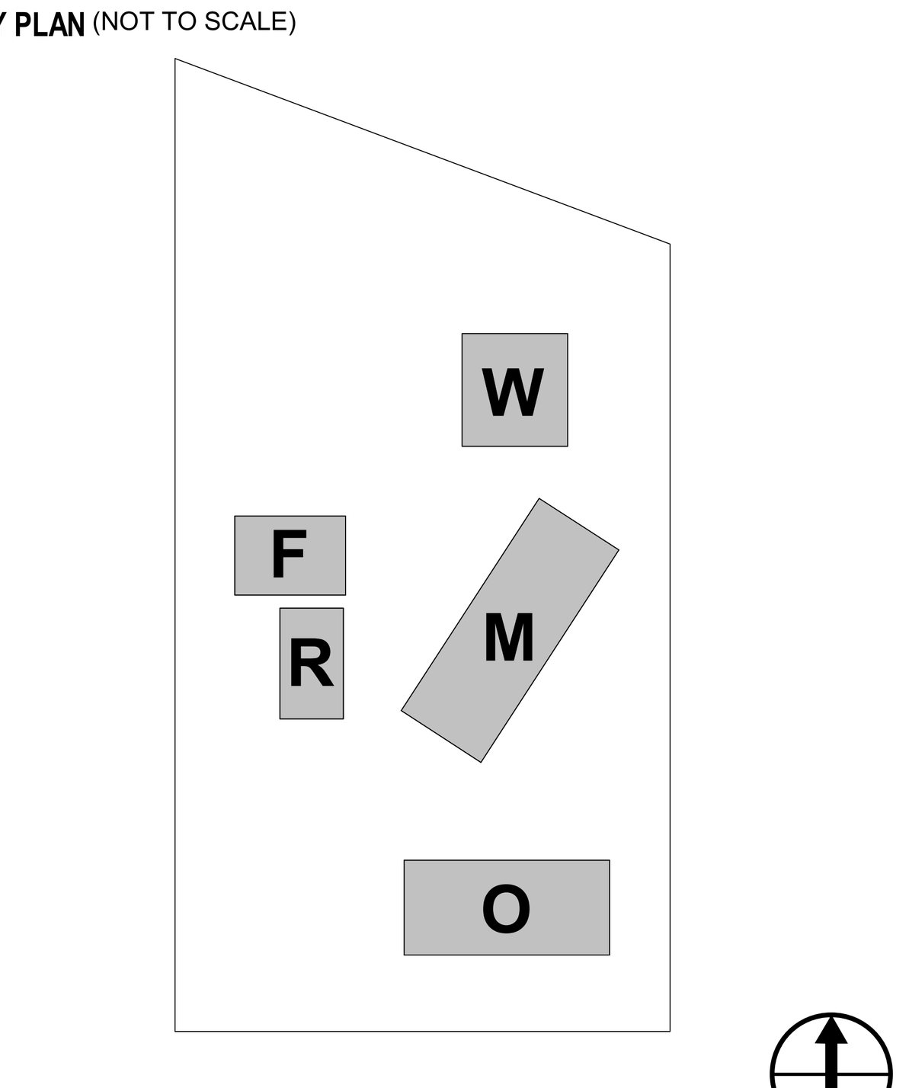
3. FOR WASHRACK EQUIPMENT CONTACT THE FOLLOWING REP FOR PRICING:

PETE BULLMORE
ALKLEAN INDUSTRIES, INC
PETE@ALKLEAN.COM
713.818.2728

4. FOR FUELAIR EQUIPMENT CONTACT THE FOLLOWING REP FOR PRICING:

DON DEANGELO
ERLING SALES & SERVICE
DDANGELO@ERLINGSALES.COM
214-505-2900

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities
5115 TX-3
Dickinson, TX 77539

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	Addendum No. 03	07 OCT 2020

PROFESSIONAL SEALS
Firm Registration No. 15868
Page Southerland Page, Inc.
REGISTERED ARCHITECT
WENDY TEAS HEGER
16677
STATE OF TEXAS
10/07/2020

GENERAL - SCHEDULES

DRAWN BY: WJC	CHECKED BY: ST
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 26 JUNE 2020

G-110
SHEET NUMBER

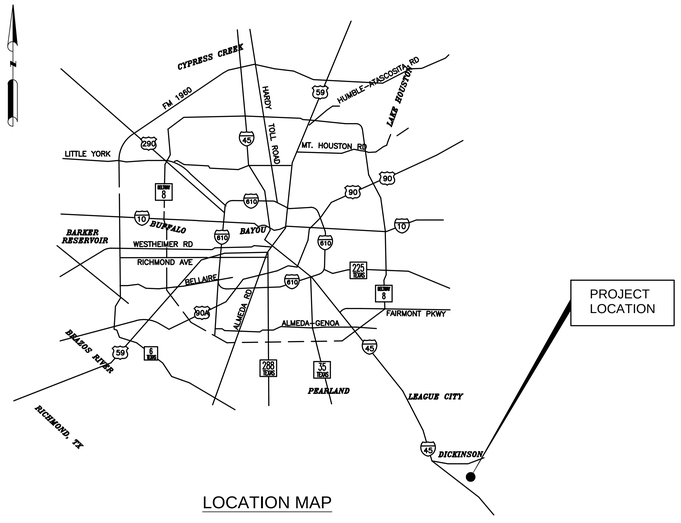
FILE PATH
USER NAME: C:\Users\vgandhi\Documents\418198-A-R19-CENTRAL-SITE_vgandhiV3V3P.rvt
DATE STAMP: 10/7/2020 6:17:19 PM

GALVESTON COUNTY
ROAD & BRIDGE DEPARTMENT FACILITIES-PHASE 1

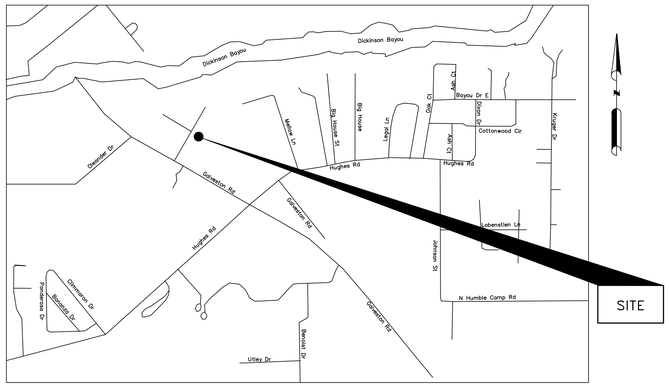
5115 TX- 3
DICKINSON, TX 77539

ISSUE FOR PERMIT

△3 ADDENDUM NO.3 10-07-2020



LOCATION MAP



VICINITY MAP
N.T.S.
KEY MAP: 190-A

CIVIL ENGINEER:

DALLY+ASSOCIATES, INC.
TBPE FIRM REGISTRATION #3426

9800 RICHMOND AVENUE, SUITE 460
HOUSTON, TX 77042
(713) 337 8881
www.dallyassociates.com

Project Manager: Jose Diego Monroy, CFM
Project Engineer: Fred Dally, P.E.

OCTOBER 07, 2020

CIVIL SHEET INDEX

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

GALVESTON COUNTY
ROAD & BRIDGE
DEPARTMENT FACILITIES PH1
5115 TX-3
DICKINSON, TX 77539

COVER SHEET

TBPE FIRM REGISTRATION #3426

DRAWING SCALE

DESIGNED BY: JDM
CHECKED BY: JDM
DATE: 10/07/20

△3 C1.0-PH1

STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

NO.	DATE	ADDENDUM NO. 3 Revisions	FD.	App.
3	10/07/2020			

GENERAL NOTES:

1. According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for Galveston County, Texas, Map No. 48547009S C dated May 2, 1983 This properties lies within Zone "C" of the flood insurance rate map and does not lies within a special flood hazard area.

   This flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. The location of the flood zone was determined by scaling from said FEMA map. The actual location, as determined by elevation contours, may differ. Intertek Surveying & Services assumes no liability as to the accuracy of the location of the flood zone limits. This flood statement shall not create liability on the part of KM Surveying, LLC.

2. This survey has been prepared for the sole purpose of the transaction described in the above mentioned Commitment for Title Insurance and the parties listed thereon. This survey is not to be used for any subsequent transactions.

3. This survey does not determine the location of wetlands, fault lines, toxic waste, cemeteries, landfills, dumps or any other environmental issues.

4. Intertek Surveying & Services has not been provided with construction plans showing the location of underground utilities. Underground utilities may exist which are not shown hereon.

5. Readily visible improvements/utilities were located with this survey, no subsurface probing, excavation or exploration was performed Intertek Surveying & Services.

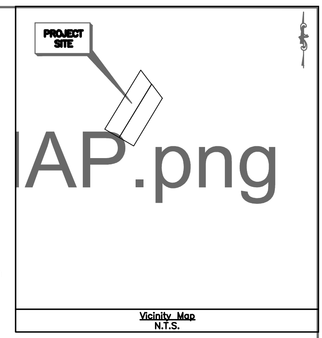
6. This exhibit has been prepared without benefits of current title report. There may be easements, setbacks, and other matters of record not shown hereon, the surveyor has not abstract the property.

7. Reference is made to a Survey of a 3.193-acre (139,093 sq. ft.) Tract situated in the Alexander Farmer League, A-11 and The W.K Wilson Survey, A-208 Galveston County, Texas. dated 12/12/2018. Prepared by Weisser Engineering Co. Job. No. GD404 and in the field book 3510.

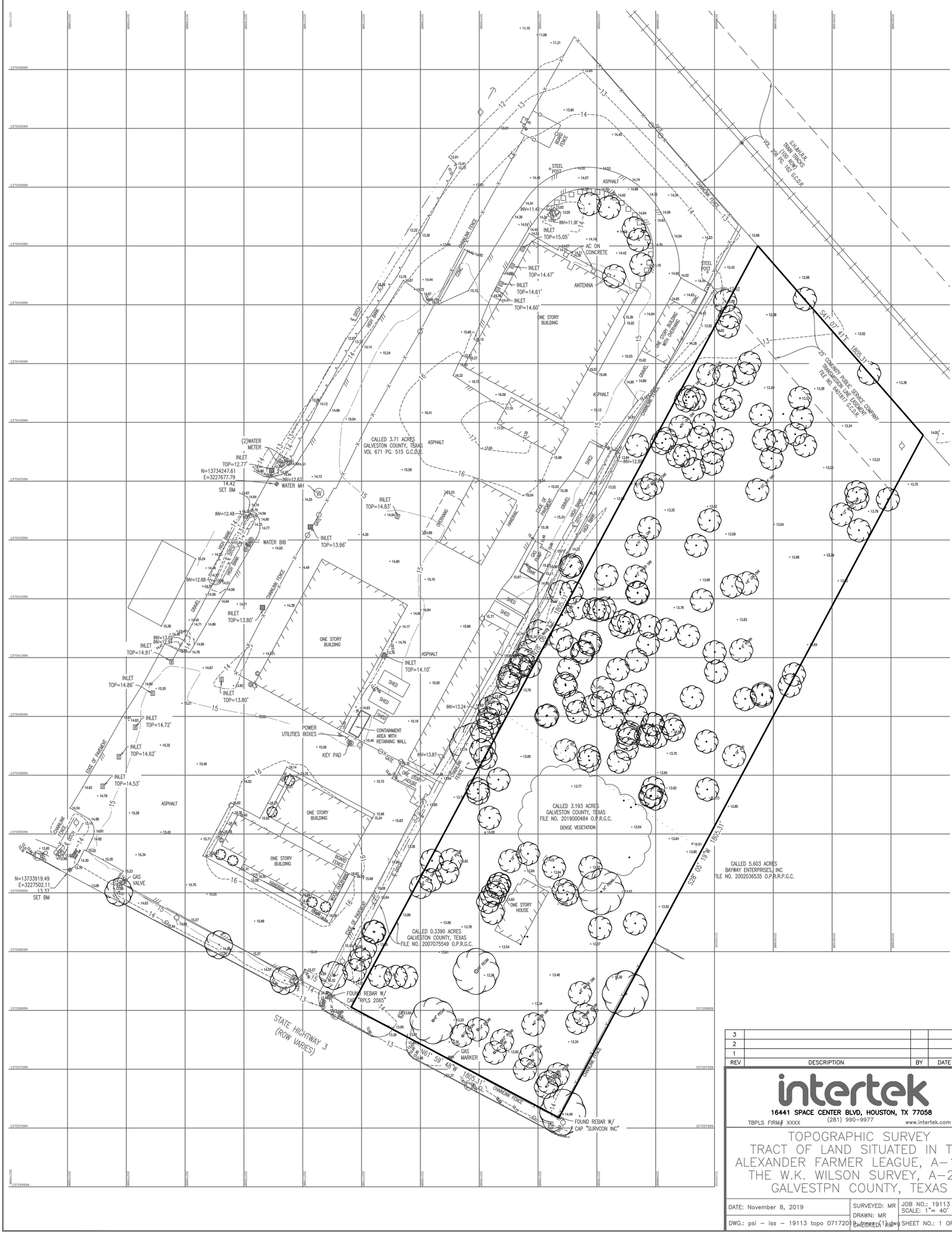
LEGEND:
- BOLLARD
- BENCHMARK
- INLET
- SMALL INLET
- GAS MARKER
- GAS METER
- GAS VALVE
- GUY/ANCHOR
- STORM MANHOLE
- SIGN
- POWER POLE
- WATER MH
- WATER METER
- DECIDUOUS TREE

0 20 40 80

PROJECT SITE



Vicinity Map
N.T.S.



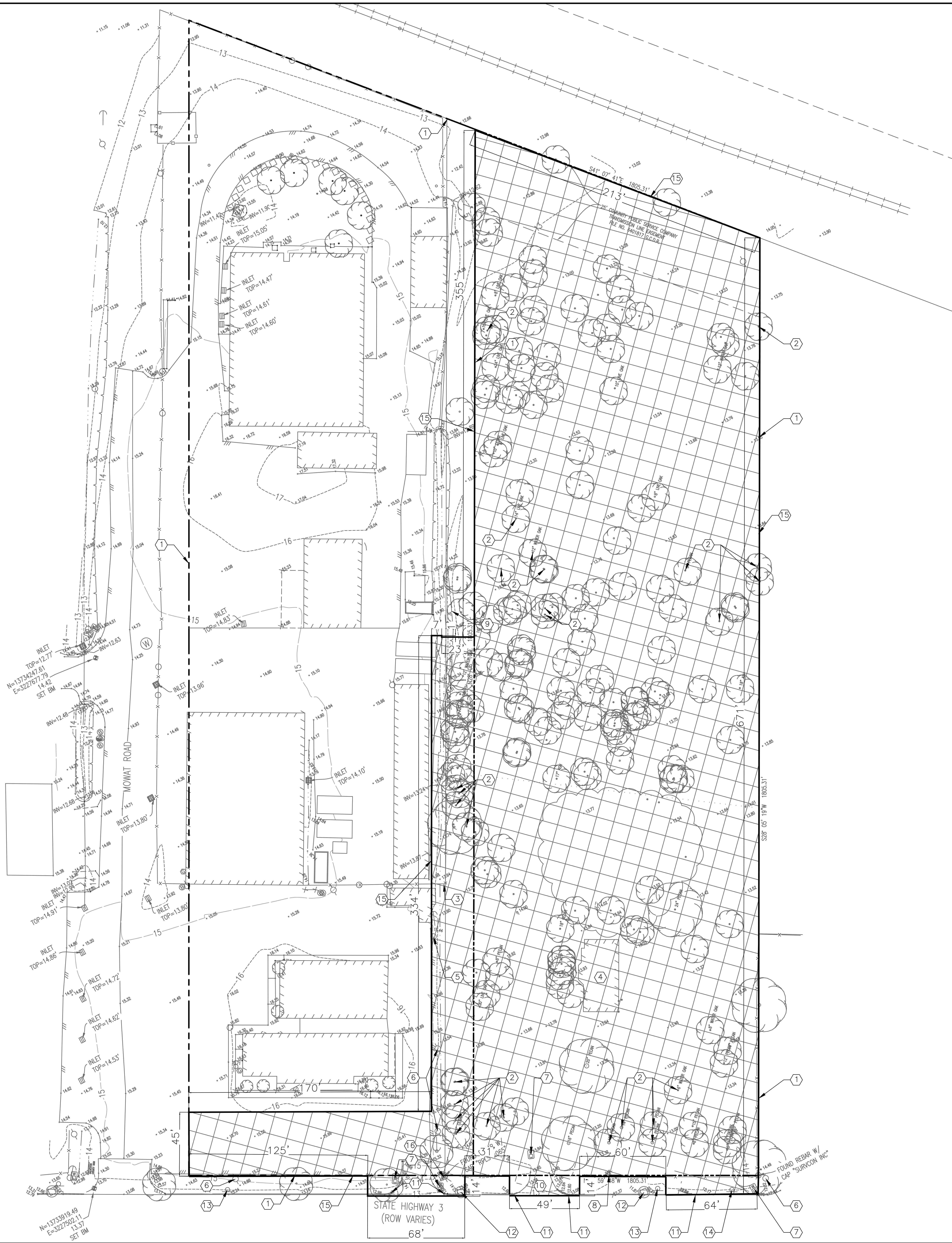
REV	DESCRIPTION	BY	DATE
3			
2			
1			

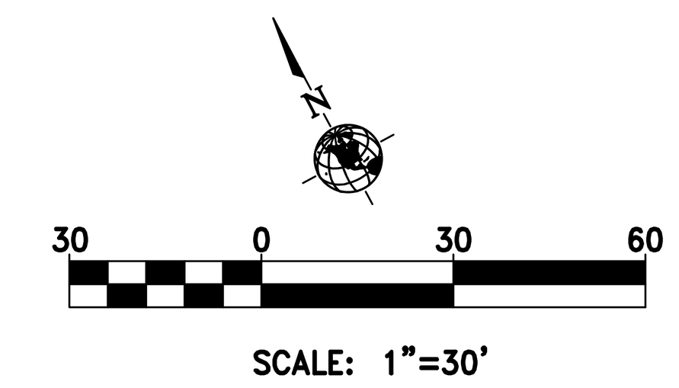
intertek
16441 SPACE CENTER BLVD, HOUSTON, TX 77058
TBPLS FIRM # XXXX (281) 990-9977 www.intertek.com

TOPOGRAPHIC SURVEY
TRACT OF LAND SITUATED IN THE ALEXANDER FARMER LEAGUE, A-11 & THE W.K. WILSON SURVEY, A-205 GALVESTPN COUNTY, TEXAS

DATE: November 8, 2019	SURVEYED: MR DRAWN: MR CHECKED: KM	JOB NO.: 19113 SCALE: 1"= 40'
DWG.: psi – iss – 19113 topo 07172019		SHEET NO.: 1 OF 1

C2.0-PH1





DEMOLITION NOTES TO CONTRACTOR

1. ALL ITEMS DESIGNATED TO BE REMOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
2. THE CONTRACTOR AND OWNER SHALL COORDINATE WITH CENTERPOINT FOR TERMINATION OF POWER AND GAS SERVICES TO THE SITE OR NEW SERVICES. THIS WORK WILL BE PROVIDED BY CENTERPOINT AND SHALL BE SCHEDULE AS ONE OF THE FIRST ITEMS OF BUSINESS.
3. THE CONTRACTOR SHALL BE PROVIDE AN APPROVED TRAFFIC CONTROL PLAN TO PERFORM ANY WORK PROPER SIGNAGE.
4. WHEN EXISTING SIDEWALK IS CLOSED FOR CONSTRUCTION, CONTRACTOR SHALL BARRICADE THAT AREA AND PROVIDE SAFE ALTERNATE PATH FOR PEDESTRIAN WITH PROPER SIGNAGE.
5. ALL TRAFFIC SIGNAGE WITHIN THE ROW SHALL BE PROTECTED INPLACE AT ALL TIMES. ANY DAMAGE TO THEN SHALL BE REPAIRED IMMEDIATELY. DURING THE CONSTRUCTION, SAFE OPERATION OF PEDESTRIAN OR VEHICULAR TRAFFIC, CONTRACTOR SHALL PROVIDE A CERTIFIED FLAGGER OR PEACE OFFICER UNTIL THAT SIGN IS RESTORED TO EXISTING CONDITION.
6. CONTRACTOR SHALL REPAIR ANY ITEMS DAMAGE DURING CONSTRUCTION TO ITS EXISTING CONDITION.
7. PRIOR TO ANY DEMOLITION WORK, THE CONTRACTOR SHALL LOCATED AS WELL CAPPED. ALL UTILITIES THAT ARE SHOWN SHALL BE LOCATED AS WELL AND CAPPED. ALL UTILITIES NOT SHOW SHALL BE LOCATED AS WELL CAPPED. UTILITIES THAT ARE SHOWN ON PLANS ARE APPROXIMATE LOCATION ONLY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE ON SITE DURING ALL CONSTRUCTION ACTIVITIES.
9. THE CONTRACTOR SHALL ENTER & EXIT THE SITE THROUGH EXISTING DRIVEWAY.
10. CAUTION. THERE ARE OVERHEAD POWERLINES WITH IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
11. THE DEMOLITION AND REMAIN OF THE TREES WILL BE UNDER THE INDICATIONS OF THE PLANS OF LANDSCAPE. PLEASE CONFIRM WITH THE CITY.

DEMOLITION KEY NOTES

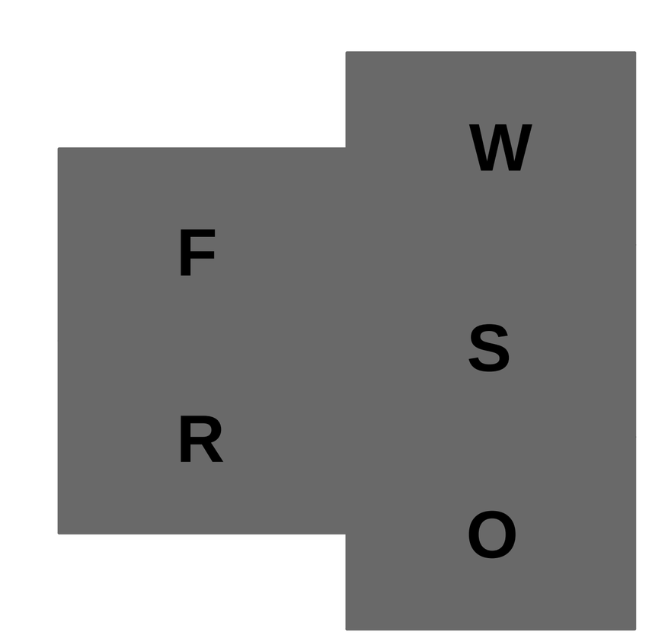
1. PROPERTY LINE.
2. EXISTING TREE TO REMAIN. PROTECT IN–PLACE.
3. EXISTING CHAINLINK FENCE TO BE REMOVED.
4. EXISTING BUILDING TO BE REMOVED.
5. EXISTING POWER POLE TO BE REMOVED.
6. EXISTING POWER POLE TO REMAIN. PROTECT IN–PLACE.
7. EXISTING WATER METER TO REMAIN OR TO BE REMOVED. PROTECT IN–PLACE. IN ACCORDING WITH OWNER/CITY FOR FURTHER INSTRUCTION.
8. EXISTING GAS MARKER TO REMAIN. PROTECT IN–PLACE.
9. EXISTING DITCH TO BE REMOVED.
10. EXISTING DRIVEWAY TO BE REMOVED.
11. EXISTING CURB TO BE REMOVED.
12. EXISTING INLET BB TO REMAIN. PROTECT IN–PLACE.
13. EXISTING TRAFFIC SIGN TO REMAIN. PROTECT IN–PLACE.
14. EXISTING TRAFFIC SIGN TO BE RELOCATED.
15. LIMITS OF DEMOLITION.
16. EXISTING POWER POLE TO BE RELOCATED.

DEMOLITION HATCH LEGEND

LIMITS OF DEMOLITION.

ONE– CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223–4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1–800–545–6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH1
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS

STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

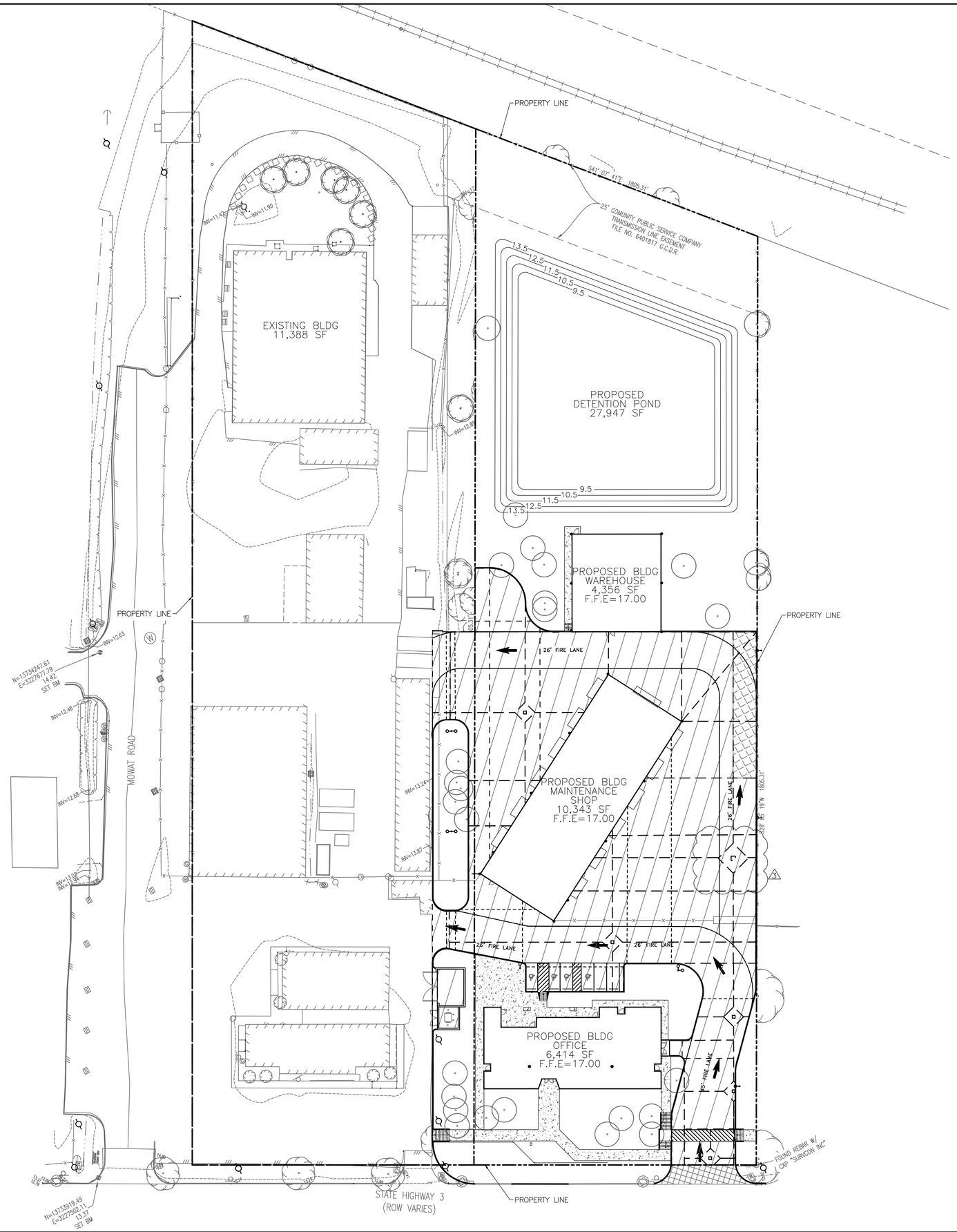
DEMOLITION PLAN

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER 418198	PROJECT ABBREVIATION GC_R&B
ORIGINAL ISSUE ISSUE FOR PERMIT	DATE 07 OCT 2020

3

C3.0-PH1
SHEET NUMBER

FILE PATH File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM



30 0 30 60

SCALE: 1"=30'

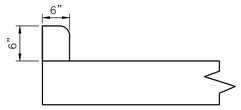
HATCH LEGEND:

- 6" THICK CONCRETE PAVING APPROX: 46,728 SQFT
  RE: C-9.0 PAVEMENT DETAILS
- 4.5" THICK CONCRETE FOR SIDEWALK APPROX: 5,762 SQFT
  RE: C-9.0 PAVEMENT DETAILS
- 6" THICK CONCRETE FOR DRIVEWAY APPROX: 707 SQFT
  RE: C-9.0 PAVEMENT DETAILS
- 6" TALL CURB REF. SECTION
- PROPOSED BUILDING LAYOUT
- 7" THICK CONCRETE PAVING APPROX: 1,699 SQFT
  RE: C-9.0 PAVEMENT DETAILS
- EXISTING PAVEMENT APPROX: 64,995 SQFT

LEGEND:

- PROPOSED SAWCUTTING JOINT
- PROPOSED EXPANSION JOINT

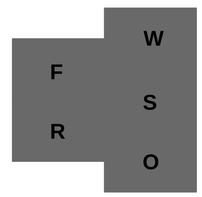
*NOTE: SEE PAVING DETAILS FOR JOINT SECTIONS



6" CONCRETE CURB APPROX: 1,516 LF

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City /
San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH1

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

3	ADDENDUM NO. 3	10-07-2020

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

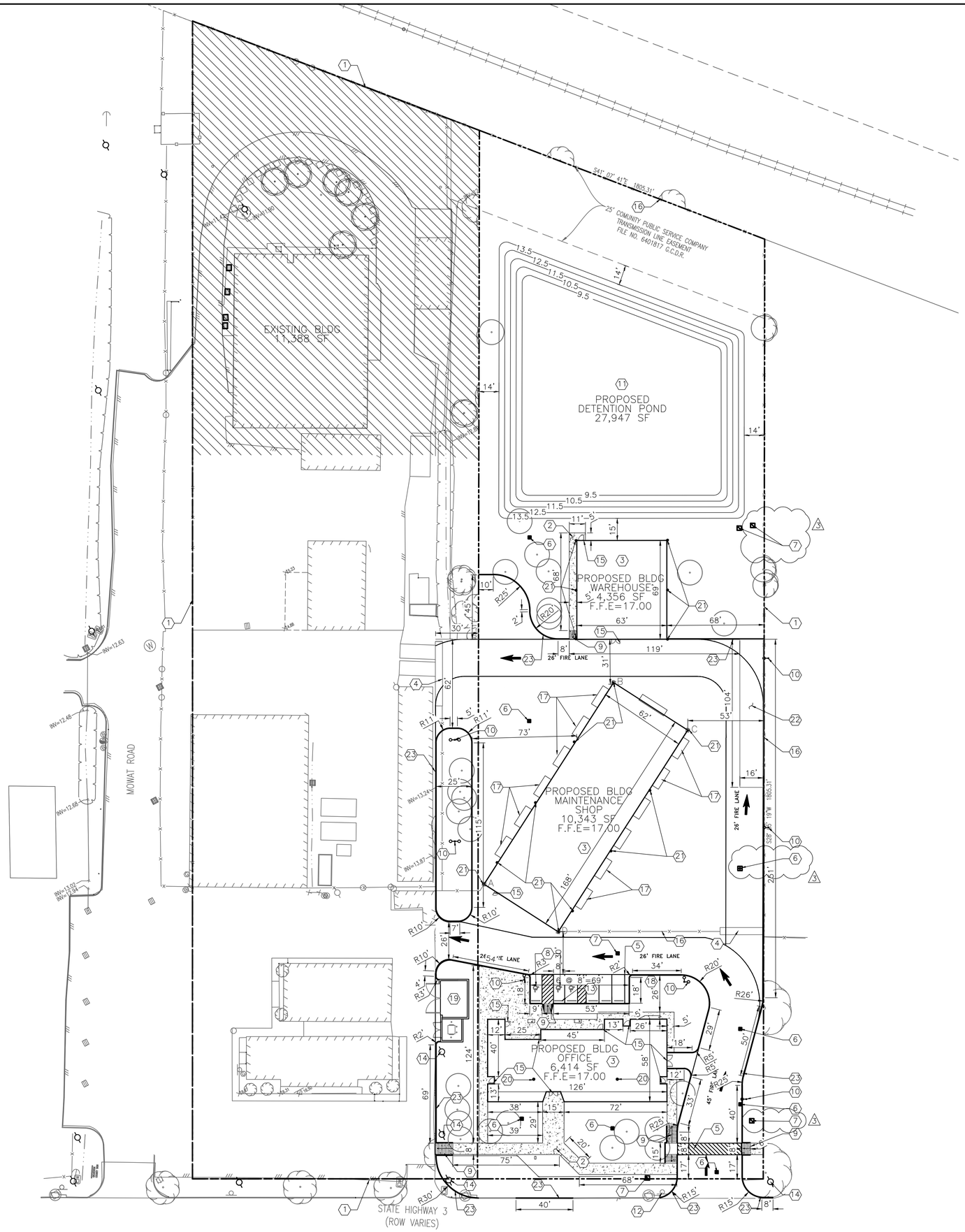
PAVING PLAN

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

3

C4.0-PH1
SHEET NUMBER

FILE PATH:
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM
File Path



30 0 30 60

SCALE: 1"=30'

SITE LAYOUT NOTES

1. THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA PROVIDED BY OTHERS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION THAT ARE TO REMAIN IN SERVICE. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
2. ALL DIMENSIONS ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO FACE OF BUILDING. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
4. REFER TO ARCHITECTURAL PLANS FOR ALL STAIRS, HANDICAPPED RAMP AND RETAINING WALL DETAILS.
5. REFER TO LANDSCAPE ARCHITECT PLANS FOR DETAILS AND DIMENSIONS OF LANDSCAPE AND HARDSCAPE AREAS.

LAYOUT KEY NOTES

1. PROPERTY LINE.
2. PROPOSED 5" THICK CONCRETE SIDEWALK PER PAVEMENT DETAILS.
3. PROPOSED BUILDING PER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
4. PROPOSED GATE BY OTHERS.
5. PROPOSED 4" YELLOW STRIPING PER PAVEMENT DETAILS TYP.
6. PROPOSED STORM DRAIN INLET TYPE "A" PER STORM DRAIN DETAILS.
7. PROPOSED JUCTION BOX PER STORM DRAIN DETAILS.
8. PROPOSED ADA SYMBOL PER PAVEMENT DETAILS.
9. PROPOSED ADA RAMP PER PAVEMENT DETAILS.
10. PROPOSED LIGHT POLE; REFER TO MEP DRAWINGS FOR LAYOUT AND SPECIFICATIONS.
11. PROPOSED DETENTION POND. REFER TO DETENTION POND CROSS SECTIONS.
12. EXISTING TRAFFIC SIGN TO REMAIN. PROTECT IN-PLACE.
13. PROPOSED WHEEL STOP.
14. EXISTING POWER POLE TO REMAIN. PROTECT IN-PLACE.
15. PROPOSED DOOR PER PROPOSED BUILDING.
16. PROPOSED CHAIN - LINK FENCE
17. PROPOSED ACCESS RAMP
18. PROPOSED GENERATOR ENCLOSURE
19. PROPOSED DUMPSTER ENCLOSURE
20. PROPOSED 8" SQUARE DOWNSPOUT. REFER TO MEP DRAWINGS.
21. PROPOSED 8" SQUARE PREFINISHED METAL DOWNSPOUT. REFER TO ARQUITECTURAL DRAWINGS.
22. PROPOSED 7" THICK CONCRETE PAVING PER PAVEMENT DETAILS.
23. PROPOSED 6" CONCRETE CURB PER PAVEMENT DETAILS.

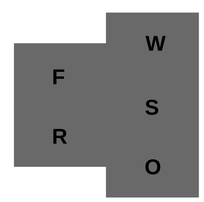
HATCH LEGEND

- CONSTRUCT 5" CONCRETE SIDEWALK ON PRIVATE AND PUBLIC PROPERTY OVER COMPACTED SUB-GRADE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS
- PROPOSED BUILDING LAYOUT. CONTRACTOR SHALL REFER TO STRUCTURAL/ARCHITECTURAL PLANS TO BUILDING DIMENSIONS AND SPECIFICATIONS
- AREA NOT IN SCOPE
- CONSTRUCT 7" CONCRETE PAVEMENT ON PRIVATE AND PUBLIC PROPERTY OVER COMPACTED SUB-GRADE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS

BUILDING CONTROL POINT		
Point	Northing	Easting
A	13733982.67	3227842.01
B	13734064.71	3227988.32
C	13734010.92	3228018.47
D	13733928.85	3227872.18

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City /
San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH1

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

1	ADDENDUM NO. 3	10-07-2020

REVISION DESCRIPTION DATE

PROFESSIONAL SEALS

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

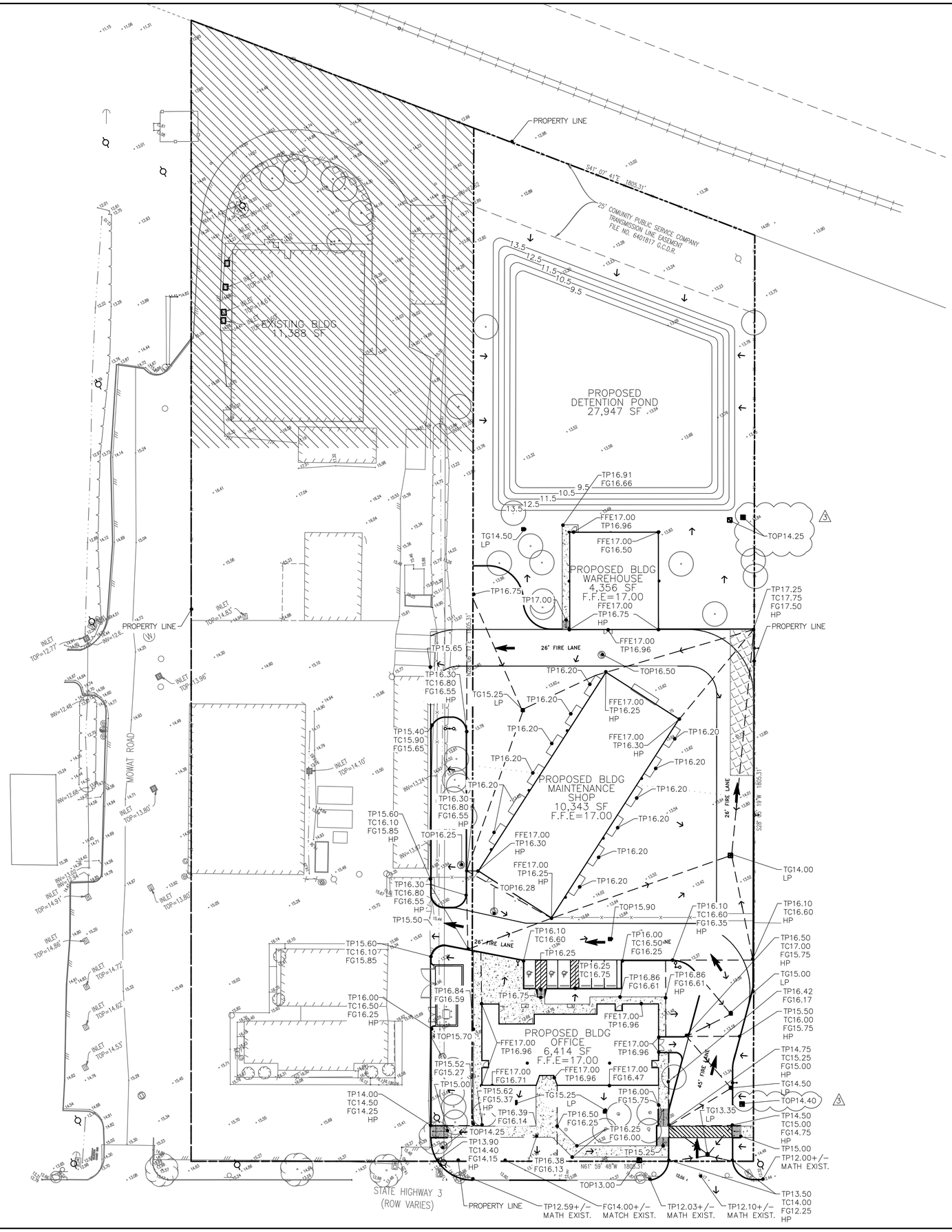
LAYOUT PLAN

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_R&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

1

C5.0-PH1
SHEET NUMBER

FILE PATH:
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM



GRADING PLAN NOTES

1. REFER TO GEOTECHNICAL REPORT FOR ALL COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ECT. WITHIN THE AREA OF CONSTRUCTION THAT ARE TO REMAIN. THEY MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PAVING AND GRADING. AT NO ADDITIONAL COST TO THE OWNER.
3.
4. ALL INLETS AND MANHOLES SHALL MEET THE REQUIREMENTS OF THE LOCAL GOVERNING AGENCY.
5. SIDEWALKS SHALL HAVE A SLOPE NO GRATER THAN 5% AND A CROSS SLOPE NOT GRATER THAN 2%, UNLESS OTHERWISE.

ABBREVIATIONS

TW TOP OF WALL

TP TOP OF PAVEMENT ELEVATION

TC TOP OF CURB ELEVATION

TG TOP OF GRATE ELEVATION (STORM DRAIN INLET)

FG FINISHED GRADE ELEVATION

FFE FINISHED FLOOR ELEVATION

BFE BASE FLOOD ELEVATION

FL FLOWLINE ELEVATION

HATCH LEGEND

CONSTRUCT 5" CONCRETE SIDEWALK OVER COMPACTED SUB-GRADE PER GEOTECHNICAL. ENGINEER'S RECOMMENDATIONS

PROPOSED BUILDING LAYOUT.

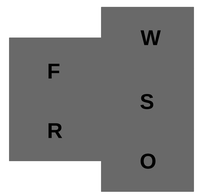
AREA NOT IN SCOPE

30 0 30 60

SCALE: 1"=30'

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities PH1

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

1	ADDENDUM NO. 3	10-07-2020

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

GRADING PLAN

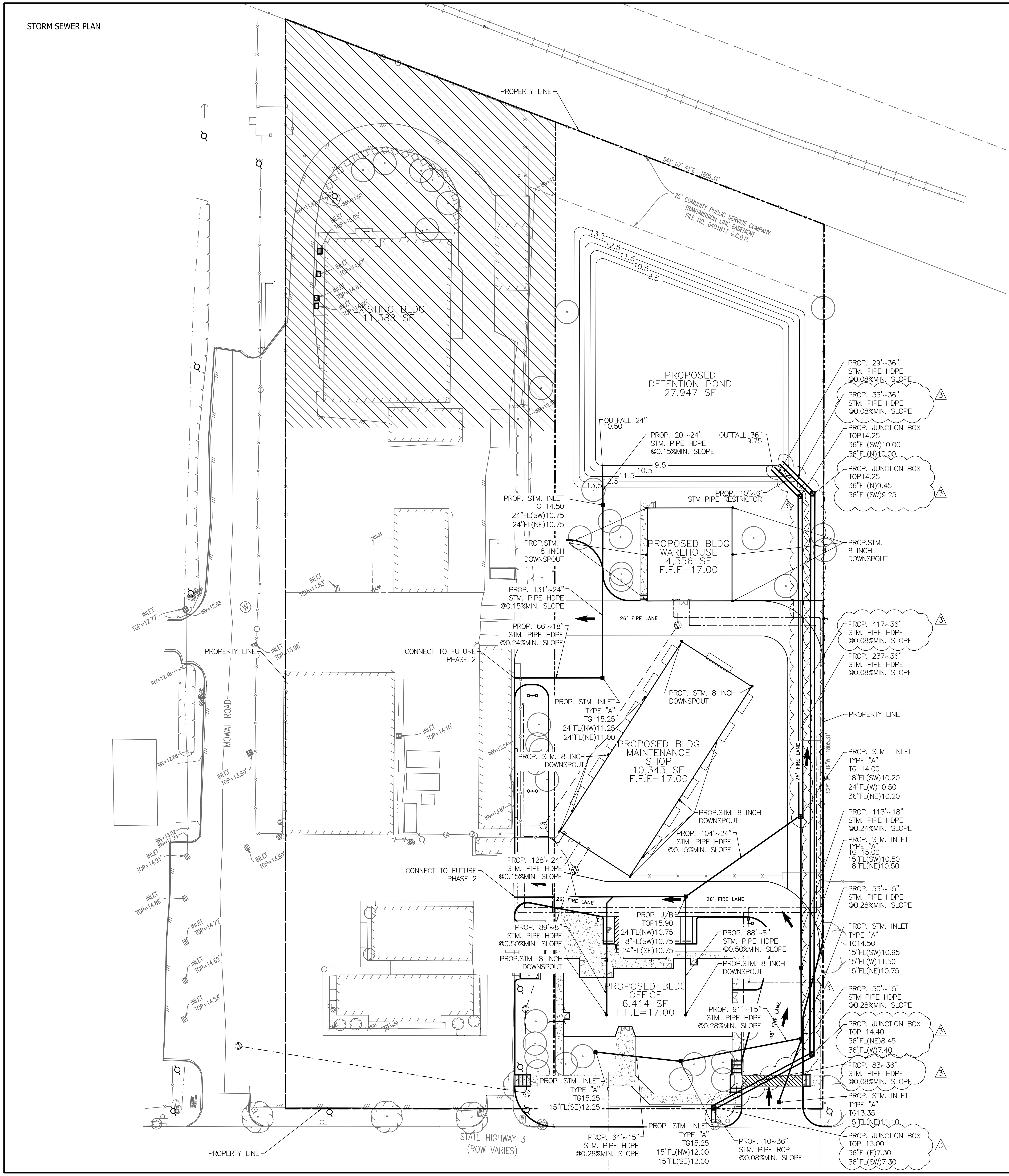
DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_R&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

1

C6.0-PH1
SHEET NUMBER

FILE PATH: File Path
DATE STAMP: 6/26/2008 2:02:08 PM

STORM SEWER PLAN



UTILITY PLAN NOTES

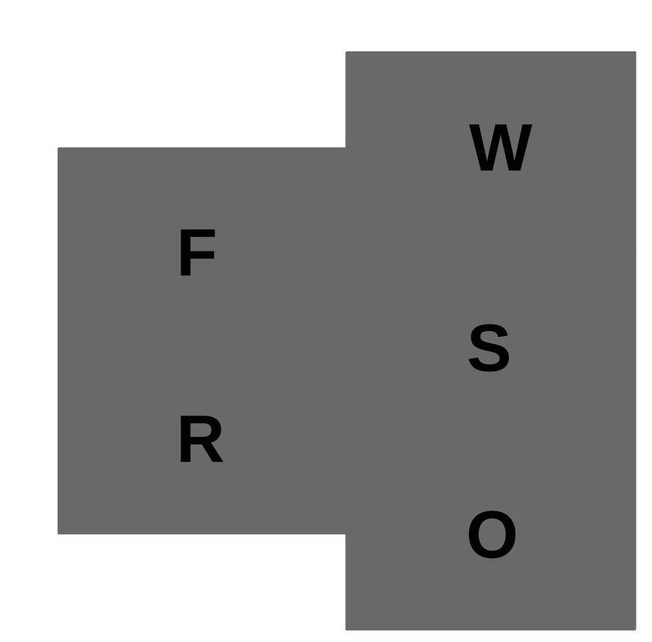
1. REFER TO GEOTECHNICAL REPORT FOR ALL COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ECT. WITHIN THE AREA OF CONSTRUCTION THAT ARE TO REMAIN. THEY MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PAVING AND GRADING. AT NO ADDITIONAL COST TO THE OWNER.
3. ALL INLETS AND MANHOLES SHALL MEET THE REQUIREMENTS OF THE LOCAL GOVERNING AGENCY.
4. ALL ROOF DRAINS ARE 4"TYP. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
5. SIDEWALKS SHALL HAVE A SLOPE NO GRATER THAN 5% AND A CROSS SLOPE NOT GRATER THAN 2%, UNLESS OTHERWISE NOTED.

HATCH LEGEND

- CONSTRUCT 5" CONCRETE SIDEWALK OVER COMPACTED SUB-GRADE PER GEOTECHNICAL. ENGINEER'S RECOMMENDATIONS
- PROPOSED BUILDING LAYOUT.
- AREA NOT IN SCOPE

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com
TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH1
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS
STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

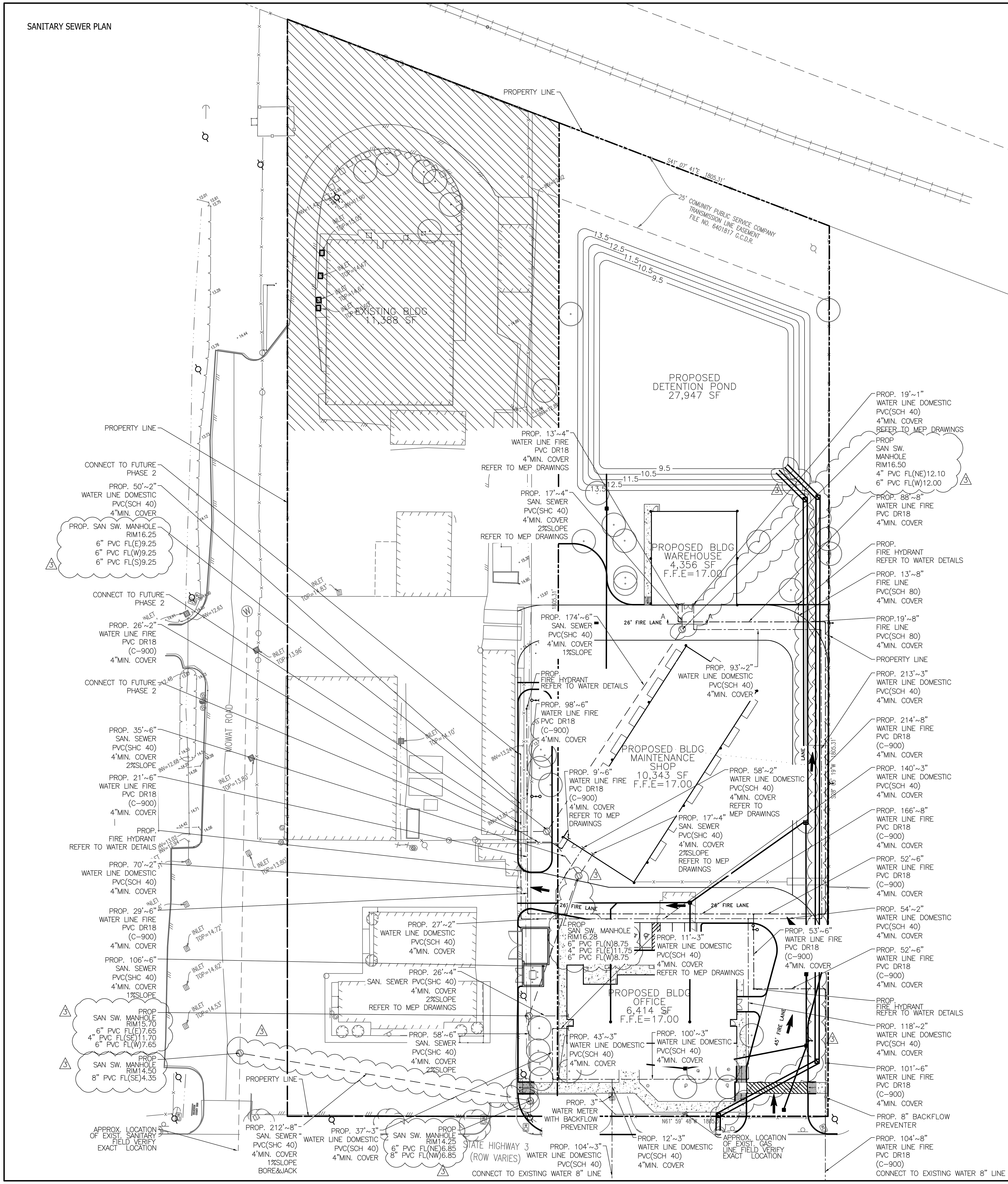
UTILITY PLAN

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

3
C7.0-PH1
SHEET NUMBER

FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM

SANITARY SEWER PLAN



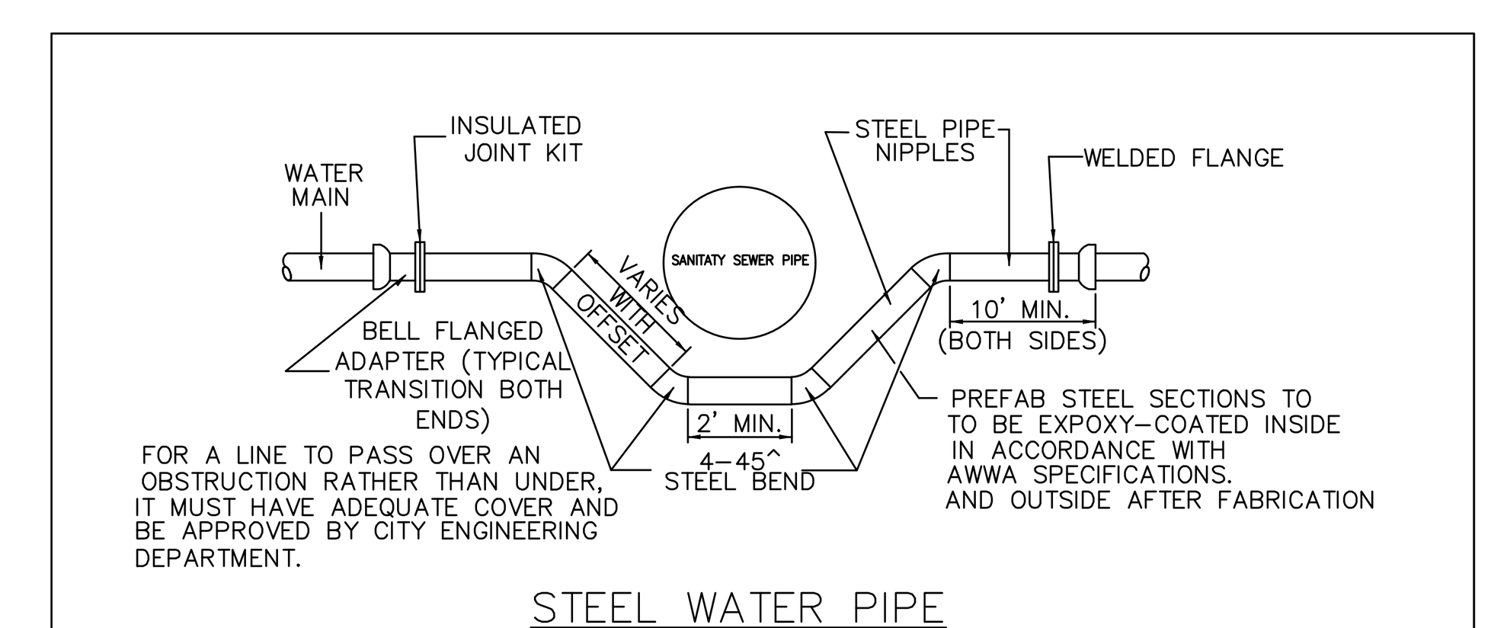
SCALE: 1"=30'

UTILITY PLAN NOTES

1. REFER TO GEOTECHNICAL REPORT FOR ALL COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ECT. WITHIN THE AREA OF CONSTRUCTION THAT ARE TO REMAIN. THEY MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PAVING AND GRADING. AT NO ADDITIONAL COST TO THE OWNER.
3. ALL INLETS AND MANHOLES SHALL MEET THE REQUIREMENTS OF THE LOCAL GOVERNING AGENCY.
4. ALL ROOF DRAINS ARE 4"TYP. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
5. SIDEWALKS SHALL HAVE A SLOPE NO GRATER THAN 5% AND A CROSS SLOPE NOT GRATER THAN 2%, UNLESS OTHERWISE NOTED.

HATCH LEGEND

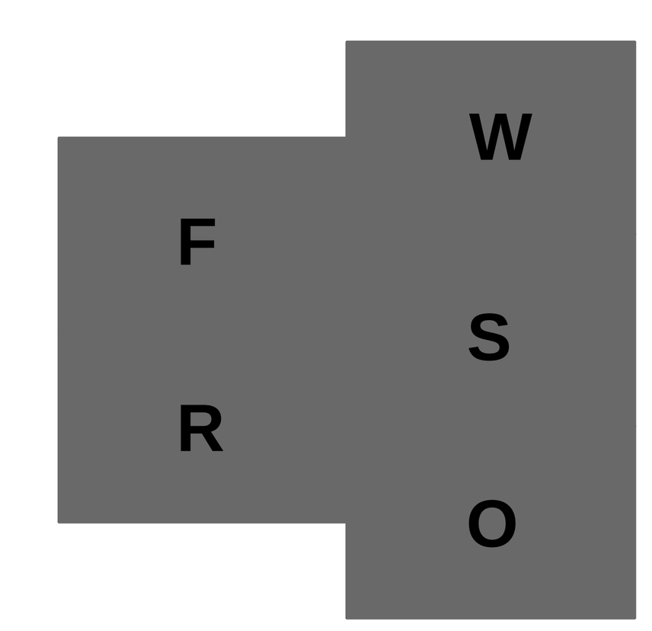
- CONSTRUCT 5" CONCRETE SIDEWALK OVER COMPACTED SUB-GRADE PER GEOTECHNICAL. ENGINEER'S RECOMMENDATIONS
- PROPOSED BUILDING LAYOUT.
- AREA NOT IN SCOPE



STEEL WATER PIPE OFFSET ASSEMBLY
N.T.S.

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/
Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com
TEL 713 871 8484
FAX 713 871 8440
ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH1
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS
STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

UTILITY PLAN

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

C7.1-PH1
SHEET NUMBER

FILE PATH File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM

A. GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SECURITY TO PROTECT HIS OWN PROPERTY, EQUIPMENT AND WORK IN PROGRESS.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING OF STREETS CAUSED BY ASSOCIATED CONSTRUCTION AT CLOSE OF EACH WORK DAY.
4. PAVED SURFACES SHALL BE PROTECTED FROM DAMAGE BY TRACKED EQUIPMENT.
5. CONTRACTOR WILL PAY ALL COST TO REPLACE IRON RODS OR OTHER LAND BOUNDARY MARKERS DISTURBED DURING CONSTRUCTION. A REGISTERED LAND SURVEYOR WILL BE USED TO RESET DISTURBED BOUNDARY MARKERS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AN UPDATE REDLINED "RECORD" SET OF CONSTRUCTION DRAWINGS ON SITE FOR INSPECTION BY THE ENGINEER.
7. CONTRACTOR SHALL PROVIDE ORANGE FENCING OR BARRICADES TO PROTECT PEDESTRIANS FROM ENTERING WORK AREAS.
8. CONTRACTOR MUST PROVIDE FENCING AROUND OPEN EXCAVATIONS AREA AT ALL TIMES.
9. REFER TO THE SWPPP GENERAL NOTES FOR PROPER MEASURES AND CONTROLS.

B. PAVEMENT

1. EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGE OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO ORIGINAL CONDITION OR BETTER, IN ACCORDANCE WITH THE GOVERNMENT AGENCY HAVING JURISDICTION.
2. THE SUBGRADE SHALL BE BROUGHT TO THE LINES AND GRADES AS SHOWN ON THE DRAWINGS.
3. WHENEVER UNSUITABLE MATERIAL IS ENCOUNTERED AND CANNOT BE HANDLED BY THE EXCAVATION OR EMBANKMENT REQUIREMENTS, THEN THE UNSUITABLE MATERIAL SHALL BE EXCAVATED TO A DEPTH DEEMED SUFFICIENT BY THE ENGINEER AND THE EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF THE JOB SITE. THE EXCAVATED AREA SHALL BE FILLED WITH SELECT FILL PER STANDARDS OF THE GOVERNMENT AGENCY HAVING JURISDICTION.
4. SURPLUS EXCAVATED EARTHEN MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND DISPOSED OF OFF-SITE. INCLUDE COST OF REMOVAL AND DISPOSAL IN OTHER ITEMS OF WHICH THIS WORK IS A COMPONENT PART. NO SEPARATE PAY. THE MATERIAL MUST BE DISPOSED OF IN A SAFE AND LEGAL MANNER.
5. EXISTING WATER VALVES AND MANHOLES SHALL BE ADJUSTED, AS NECESSARY TO MATCH TOP OF PROPOSED PAVEMENT ELEVATION.

C. SANITARY SEWER, STORM SEWER & DRAINAGE

1. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
2. ANY CURB DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER OR OWNING AUTHORITY.
3. CONTRACTOR'S ACTIVITIES SHALL HAVE NO EFFECT TO FLOWS TO AND FROM OFF SITE AREAS EXISTING SHEET DRAINAGE SHALL NOT BE IMPEDED BY PROPOSED CONSTRUCTION.
4. WHERE MANHOLES ARE LOCATED WITHIN PAVED AREAS, CONTRACTOR SHALL SET RIM ELEVATIONS TO MATCH FINISHED GRADE ELEVATIONS. OUTSIDE OF PAVED AREAS, SET MANHOLE RIMS 3 INCHES (MINIMUM) TO 6 INCHES (MAXIMUM) ABOVE FINISHED GRADE. ADD SLOPE FILL AROUND MANHOLES, SLOPED AWAY AND DOWN FROM MANHOLE RING.
5. NO DUMPING OF EXCAVATION MATERIALS WILL BE ALLOWED ON PAVED AREAS. CONTRACTOR MUST DETERMINE A LOCATION TO TEMPORARILY STOCKPILE STORM SEWER EXCAVATION TO BE USED AS BACK FILL, AS APPROVED.
6. THE CONTRACTOR SHALL USE HDPE PLASTIC PIPE OR RCP PIPE AS SHOWN ON PLANS.

D. STANDARD NOTES FOR CONSTRUCTION DRAWINGS:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING BACKSLOPE DRAINAGE SYSTEMS.
2. ALL DISTURBED AREAS WITHIN THE SUBDIVISION, EXCEPT THE CHANNEL BOTTOM, SHALL BE FERTILIZED SEEDED.
3. ALL BACKFILL SHALL BE STRICTLY ACCORDING TO DETAILS, SPECIFICATION OR GEOTECHNICAL RECOMMENDATIONS, AS APPROVED BY ENGINEER.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING CHANNEL FLOWLINE TO DESIGN ELEVATIONS AS SHOWN ON PLANS AND DOWNSTREAM AS NECESSARY TO ENSURE NO WATER IN STORM SEWER DURING "DRY" CONDITIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOW IN CHANNEL DURING CONSTRUCTION AND RESTORING CHANNEL TO ORIGINAL CONDITION.

E. UTILITIES

1. CENTERPOINT ENERGY

WARNING: OVERHEAD ELECTRICAL FACILITIES

A. OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATED THEM PRIOR TO BEGINING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANCE FOR LINES TO BE TURNED OF OR REMOVED, CALL CENTERPOINT ENERGY, AT (713) 207-7777.

CAUTION: UNDERGROUND GAS FACILITIES

A. LOCATIONS OF CENTERPOINT ENERGY MAIN LINES, (TO INCLUDE GAS TRANSMISSION, AND/OR INDUSTRIAL GAS SUPPLY CORP. WHERE APPLICABLE), ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 OR 1-800-669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

B. WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713)-967-8037 FROM 7:00 AM TO 4:30 PM FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.

C. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.

D. WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.

E. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

F. OTHER:

1. LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON PLANS IS NOT GUARANTEED TO BE COMPLETE OR DEFINITE. THE APPROXIMATE LOCATIONS OF KNOWN EXISTING UTILITIES ARE SHOWN. CONTRACTOR SHALL DETERMINE THE EXACT SIZE AND HORIZONTAL AND VERTICAL LOCATIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY ALL OF THE PROPER GOVERNING AUTHORITIES, (STATE, COUNTY OR CITY) AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
2. ANY PERMANENT RELOCATION OF AN EXISTING UTILITY NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO RELOCATION AND SHALL CONFORM TO THE APPLICABLE STANDARDS OF GOVERNING AUTHORITIES.
3. CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND FACILITIES DURING INSTALLATION OF PROPOSED WORK.
4. IN THE EVENT THAT ANY CONTAMINATED MATERIALS OF SUSPECT CONTAMINATED MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CEASE OPERATIONS IN THAT AREA AND IMMEDIATELY NOTIFY THE ENGINEER.
5. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARDS OF THE GOVERNMENTAL AGENCY HAVING JURISDICTION.
6. ALL PAVEMENT SHALL CONFORM WITH THE STANDARDS OF THE GOVERNMENTAL AGENCY HAVING JURISDICTION.
7. ALL STORM SEWERS SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (RCP) ASTM C-76, CLASS III, EXCEPT FOR ALUMINIZED STEEL PIPE FOR OUTFALLS. (SEE DETAILS FOR BEDDING).
8. STEEL METAL PIPE SHALL BE ALUMINIZED STEEL AASHTO M274 TYPE 2 MIN. 0.052 THICKNESS.
9. ALL GRAVITY SANITARY SEWERS SHALL BE CONSTRUCTED OF PVC PIPE (ASTM D-3034, SDR 26), UNLESS OTHERWISE NOTED ON THE DRAWINGS.
10. ALL FORCE MAIN SANITARY SEWERS SHALL BE CONSTRUCTED OF PVC PIPE (ASTM D-3034, SDR 26), UNLESS OTHERWISE NOTED ON THE DRAWINGS.
11. ALL SANITARY SEWERS AND WATER MAINS SHALL HAVE SIX (6) INCHES OF SAND BACKFILL BOTH UNDER AND OVER PIPE WITH DETECTOR TAPE (METALLIC) INSTALLED 1.5' BELOW FINISH GRADE.
12. BACKFILL WITH CEMENT STABILIZED SAND WHEN SANITARY SEWER CROSSES OVER STORM SEWER (SPACE BETWEEN STORM AND SANITARY SEWERS).
13. ALL SEWERS UNDER OR WITHIN ONE (1) FOOT OF PROPOSED OR FUTURE PAVEMENT SHALL BE BACKFILLED WITH 1 ½ SACK CEMENT STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE.
14. COST OF SPECIAL BACKFILL AND BEDDING IS INCIDENTAL TO THE UNIT PRICE BID PER LINEAR FOOT, NO EXTRA PAY.
15. WATER MAINS SHALL BE C-900 PVC PIPE BEARING THE NSF-PWSEAL AND FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT WITH NON-CORRODING HARDWARE INCLUDING MEGA-LUG RESTRAINTS CONFORMING TO AWWA CL-110 OR C-153.
16. FIRE HYDRANTS SHALL BE "MUELLER IMPROVED" OR APPROVED EQUAL.
17. MINIMUM OF SIX (6) INCHES OF CLEARANCE SHALL BE MAINTAINED BETWEEN WATER MAIN CROSSING OF OTHER UTILITIES.
18. ALL PROPOSED PIPE STUB-OUTS FROM STORM MANHOLES OR INLETS ARE TO BE PLUGGED WITH EIGHT (8) INCH BRICK WALLS UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL NOTIFY THE CITY OR GOVERNMENTAL AGENCY HAVING JURISDICTION, 48 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION.
20. GUIDELINES SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SHALL BE OBSERVED.
21. ALL SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TCEQ "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS".
22. CONTRACTOR SHALL OBTAIN ALL CONSTRUCTION PERMITS REQUIRED TO THE STANDARDS OF THE GOVERNMENTAL AGENCY HAVING JURISDICTION.
23. SANITARY MANHOLES WITHIN THE FLOOD PLAIN SHALL BE WATERPROOFED AND VENTED WITH RISER ABOVE FLOOD PLAIN OR RIMS SET ABOVE THE 100 YEAR FLOOD ELEVATION.
24. WHERE A NEW POTABLE WATERLINE CROSSES A NEW, NON-PRESSURE RATED WASTEWATER MAIN OR LATERAL AND A STANDARD LENGTH OF THE WASTEWATER PIPE IS LESS THAN 18 FEET IN LENGTH, THE POTABLE WATER PIPE SEGMENT SHALL BE CENTERED OVER THE WASTEWATER LINE. THE MATERIALS AND METHOD OF INSTALLATION SHALL CONFORM WITH ONE OF THE FOLLOWING OPTIONS.

(I) WITHIN NINE FEET HORIZONTALLY OF EITHER SIDE OF THE WATERLINE, THE WASTEWATER PIPE AND JOINTS SHALL BE CONSTRUCTED WITH PIPE MATERIAL HAVING A MINIMUM PRESSURE RATING OF AT LEAST 150 PSI. AN ABSOLUTE MINIMUM VERTICAL SEPARATION DISTANCE OF TWO FEET SHALL BE PROVIDED. THE WASTEWATER MAIN OR LATERAL SHALL BE LOCATED BELOW THE WATERLINE.

(II) ALL SECTIONS OF WASTEWATER MAIN OR LATERAL WITHIN NINE FEET HORIZONTALLY OF THE WATERLINE SHALL BE ENCASED IN AN 18-FOOT (OR LONGER) SECTION OF PIPE. FLEXIBLE ENCASING PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS OF 115 PSI AT 5.0% DEFLECTION. THE ENCASING PIPE SHALL BE CENTERED ON THE WATERLINE AND SHALL BE AT LEAST TWO NOMINAL PIPE DIAMETERS LARGER THAN THE WASTEWATER MAIN OR LATERAL. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE-FOOT (OR LESS) INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. EACH END OF THE CASING SHALL BE SEALED WITH WATERTIGHT NON-SHRINK CEMENT GROUT OR A MANUFACTURED WATERTIGHT SEAL. AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF SIX INCHES BETWEEN THE ENCASEMENT PIPE AND THE WATERLINE SHALL BE PROVIDED. THE WASTEWATER LINE SHALL BE LOCATED BELOW THE WATERLINE.

(III) WHEN A NEW WATERLINE CROSSES UNDER A WASTEWATER MAIN OR LATERAL, THE WATERLINE SHALL BE ENCASED AS DESCRIBED FOR WASTEWATER MAINS OR LATERALS IN SUBCLASS (II) OF THIS CLAUSE OR CONSTRUCTED OF DUCTILE IRON OR STEEL PIPE WITH MECHANICAL OR WELDED JOINTS AS APPROPRIATE. AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF ONE FOOT BETWEEN THE WATERLINE AND THE WASTEWATER MAIN OR LATERAL SHALL BE PROVIDED. BOTH THE WATERLINE AND WASTEWATER MAIN OR LATERAL MUST PASS A PRESSURE AND LEAKAGE TEST AS SPECIFIED IN AWWA C600 STANDARDS.

25. COST OF TRENCH SAFETY SYSTEMS AS REQUIRED BY OSHA FOR DEPTHS OVER FIVE (5) FEET IS INCIDENTAL TO THE PROJECT.
26. WATER LINES ARE TO BE CONSTRUCTED TYPICALLY 4 FEET DEEP TO THE TOP OF THE LINE FROM THE FINISHED CURB ELEVATION OR NATURAL GROUND. LINES MAY BE SAGGED OR RAISED WITHIN THE RANGE OF 3-6 FEET TO AVOID UTILITY CONFLICTS WATER LINE DEFLECTIONS SHALL NOT EXCEED THE PIPE MANUFACTURES RECOMMENDATIONS.
27. ALL SLEEVES TO BE FOUR (4) INCH SCHEDULE 40 PVC SLEEVES TO BE EIGHTEEN (18) INCHES BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL. STUB OUT THREE (3) FEET BEYOND CURB AND MARK SLEEVES LOCATIONS ON CURB.
28. THERE SHALL BE A MINIMUM HORIZONTAL DISTANCE OF FOUR (4) FEET CLEARANCE BETWEEN ALL WATER LINES AND SANITARY SEWER LINES THAT ARE SDR 26, AND A NINE (9) FOOT CLEARANCE BETWEEN ALL WATER LINES AND SANITARY SEWER LINES THAT ARE SDR 35. (SEE DETAIL)
29. ALL JOINTS OF DUCTILE IRON PIPE BELOW GROUND WILL BE M.J. WITH PIPE RESTRAINTS.
30. ALL SIGNAGE AND/OR TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY HARRIS COUNTY PRIOR TO CONSTRUCTION.

NOTE:
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES IN THE ROAD R.O.W. PRIOR TO CONSTRUCTION. (TEXAS ONE CALL 1-800-545-6005)

NOTE:
CONTRACTOR SHALL ADJUST ALL WATER VALVES AND STORM SEWER MANHOLES TO MATCH FINAL GRADES. SEE ALL GRADING PLANS SHEETS.

NOTE:
CONTRACTOR SHALL VERIFY ALL WATER, SANITARY SEWER AND STORM SEWER LINES PRIOR TO WORKING IN ANY AREA. SEE TOPO MAP AND REFERENCE DRAWINGS.

NOTE:
THIS DEVELOPMENT HAS BEEN DESIGNED TO NOT IMPEDE, IMPOUND, OR BLOCK THE NATURAL FLOW OF DRAINAGE FROM OR ACROSS ADJACENT AND CONTIGUOUS PROPERTIES.

NOTE:
ALL FUTURE SITE AND BUILDINGS PROJECTS WILL REQUIRE CIVIL/SITE DRAWING APPROVAL AND CHANGES TO THE PLATS MAY BE REQUIRED AS A PART OF THE REVIEW PROCESS.

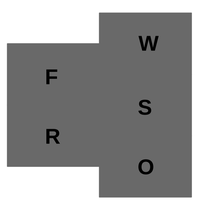
ALL PIPE PLACEMENT AND JOINTING WILL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACTURES' REQUIREMENTS AND SPECIFICATIONS.

STORM SEWER PIPE — HDPE N-12, PVC SDR35 OR RCP CLASS III (RUBBER GASKET)— EXCEPT IF NOTED OTHERWISE
POTABLE WATER —— 3" AND SMALLER – SCH 80 PVC
4" AND LARGER – C-900, DR 18- 150 PSI
SANITARY SEWER – GRAVITY , PVC SDR 26
CULVERT PIPE – RCP CLASS IV T&G

THE OWNER WILL SET UP THE NECESSARY WATER ACCOUNTS AND PURCHASE THE WATER METERS AND METER BOXES.
THE CONTRACTOR WILL PICK UP THE METERS AND BOXES AT THE CITY AND DELIVER THEM TO THE JOBSITE.
THE CONTRACTOR WILL MAKE THE NECESSARY TAPS AND INSTALL THE METERS AS REQUIRED BY HARRIS COUNTY.

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH1

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
2	ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

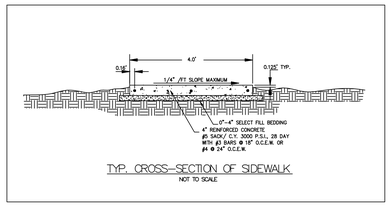
GENERAL NOTES

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

2

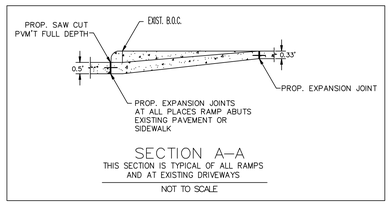
C8.0-PH1
SHEET NUMBER

FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM



TYP. CROSS-SECTION OF SIDEWALK

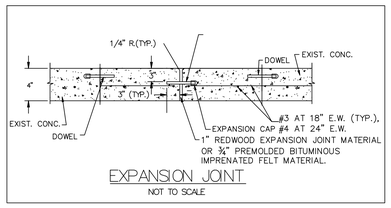
NOT TO SCALE



SECTION A–A

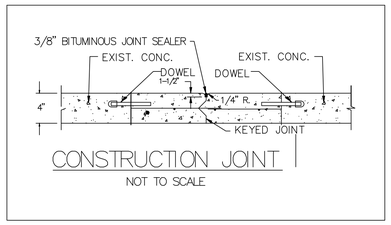
THIS SECTION IS TYPICAL OF ALL RAMPS AND AT EXISTING DRIVEWAYS

NOT TO SCALE



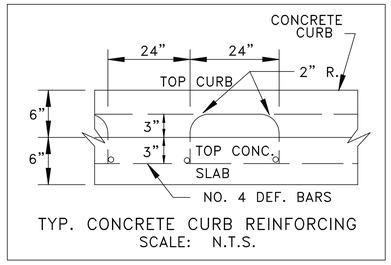
EXPANSION JOINT

NOT TO SCALE



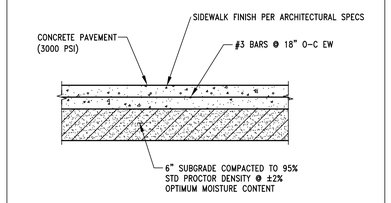
CONSTRUCTION JOINT

NOT TO SCALE



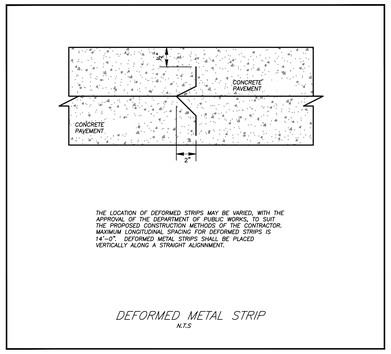
TYP. CONCRETE CURB REINFORCING

SCALE: N.T.S.



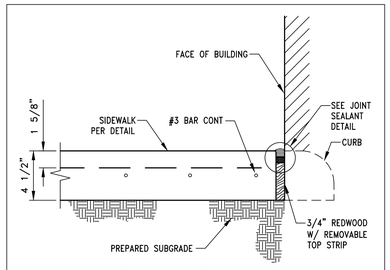
5" CONCRETE SITE PAVING/SIDEWALK

SCALE: N.T.S.



DEFORMED METAL STRIP

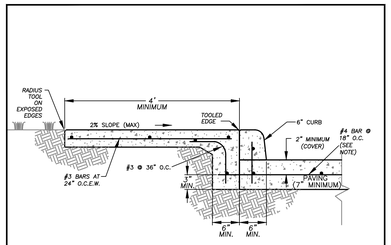
N.T.S



SIDEWALK DETAIL

AT BUILDING OR CURB

SCALE: N.T.S.

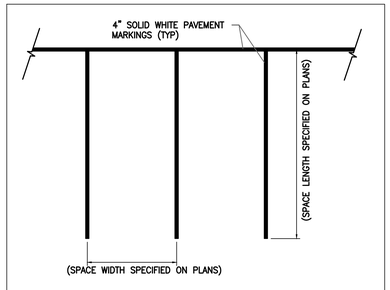


NOTES:

1. EXTEND PAVEMENT EXPANSION JOINTS THROUGH SIDEWALK.
2. ALLOW KEYWAY WITH L-BAR OR DRILL & GROUT #4 IN PAVEMENT. MINIMUM EMBEDMENT 6" INTO PAVEMENT.
3. SEE ROSENBERG STANDARD PAVING SHEET P-100a FOR FURTHER CONCRETE CURB DETAILS
4. SEE ROSENBERG STANDARD PAVING SHEET P-101 FOR FURTHER SIDEWALK DETAILS
5. SEE ROSENBERG STANDARD PAVING SHEET P-108 FOR FURTHER ROADWAY DETAILS

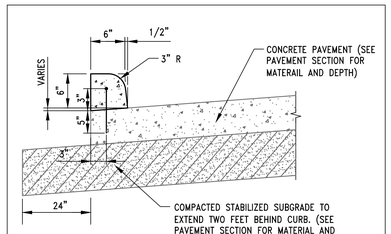
SIDEWALK CONNECTION TO CURB

N.T.S



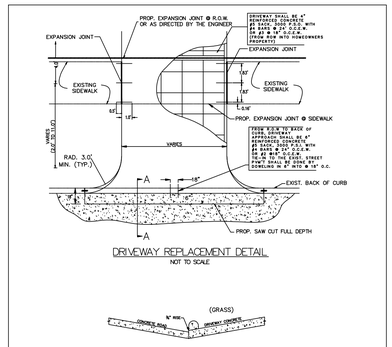
TYPICAL PARKING SPACE DIMENSIONING

SCALE: N.T.S.



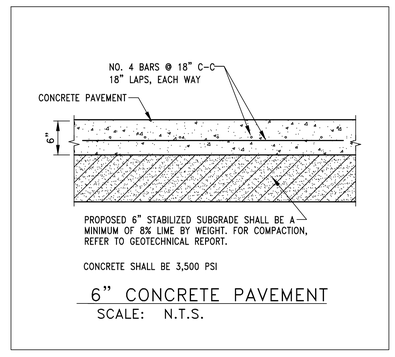
CONCRETE CURB SECTION

SCALE: N.T.S.



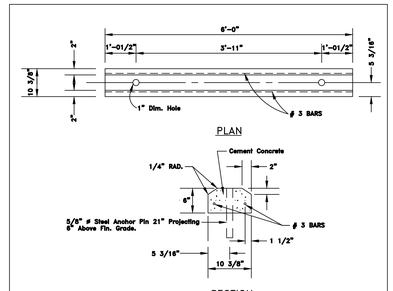
DRIVEWAY REPLACEMENT DETAIL

NOT TO SCALE



6" CONCRETE PAVEMENT

SCALE: N.T.S.



PRECAST CONC. WHEEL STOP DETAIL

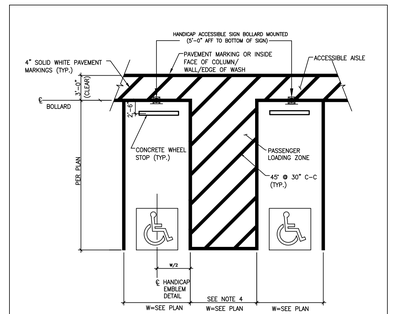
SCALE: N.T.S.

CEMENT STABILIZED SAND 2–SK/C.Y.	
RESIDENTIAL	4" MINIMUM
COMMERCIAL	6" MINIMUM
INDUSTRIAL	8" MINIMUM
REINFORCED CONCRETE PAVEMENT 3,500 PSI Min.	
RESIDENTIAL	4" MINIMUM
COMMERCIAL	6" MINIMUM
INDUSTRIAL	8" MINIMUM

DRIVEWAY PAVEMENT CONSTRUCTION TABLE

STANDARD DRIVEWAY CONSTRUCTION TABLE & NOTES

N.T.S

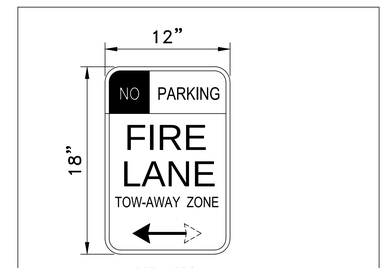


GENERAL NOTES:

1. ALL SLOPES FOR ACCESSIBLE SPACES AND ACCESSIBLE AISLES SHALL NOT EXCEED 2%.
2. COLUMNS SHALL NOT ENCROACH INTO SPACES, AISLE, OR PASSENGER LOADING ZONE.
3. IF OVERHEAD SIGNS ARE PROVIDED, BOLLARD MOUNTED SIGNS WILL NOT BE REQUIRED.
4. USE 5'-0" FOR CAR AND 9'-0" FOR VAN

90° ACCESSIBLE SPACES – SIGN LOCATION

SCALE: N.T.S.



FIRE LANE SIGN

N.T.S

AT THE BEGINNING AND END OF THE FIRE LANE, THE SIGN SHALL HAVE A SINGLE HEADED ARROW POINTING IN THE DIRECTION THE REGULATION IS IN EFFECT. THE INTERMEDIATE SIGN SHALL HAVE DOUBLE HEADED ARROWS POINTING IN BOTH DIRECTIONS.

THE MAXIMUM SPACING OF THE SIGNS SHALL BE 75' CONTINGENT UPON TRAFFIC ENGINEER'S REVIEW APPROVAL.

THE SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° WITH THE CURB OR LINE OF TRAFFIC FLOW.

THE CLEARANCE TO THE BOTTOM OF THE SIGN SHALL BE 7 FEET. THERE SHALL BE NO OTHER SIGNS ATTACHED TO THE SIGN OR THE SIGN POLE.

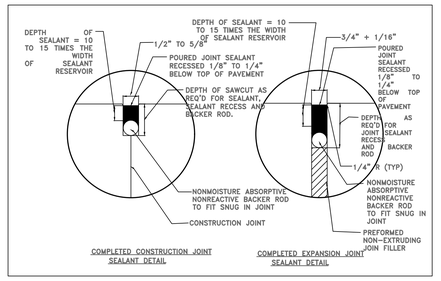
THE SIGN PLATE SHALL BE A MINIMUM OF 12"X18" WITH A THICKNESS OF 0.80".

NOTE:

FIRE LANES: SIGNS SHALL BE POSTED ON ONE OR BOTH SIDES OF THE FIRE APPARATUS ROAD. WHERE A SIGN CAN NOT BE ERECTED, THE FIRE LANES SHALL BE MARKED USING THE APPROVED METHOD OF 6-INCH RED STRIPE WITH 4-INCH WHITE LETTERS STATING "FIRE LANE NO PARKING" AND SHALL CONTINUE ALONG THE RED STRIPE EVERY 15 FEET INTERVALS.

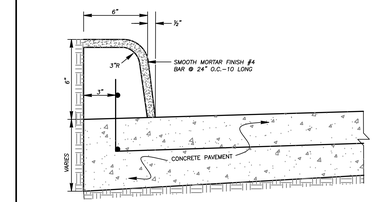
FIRE LANE DETAILS AND NOTES

SCALE: N.T.S.



COMPLETED CONSTRUCTION JOINT SEALANT DETAIL

COMPLETED EXPANSION JOINT SEALANT DETAIL

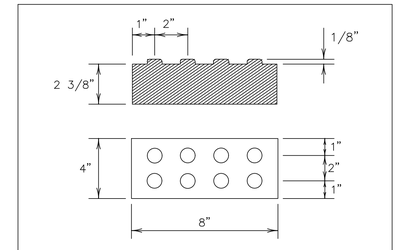


NOTES:

1. MORTAR FINISH NOT REQUIRED WHEN CURB IS POURED BY A MACHINE, BUT CURB WILL HAVE THE SAME OUTSIDE DIMENSIONS.
2. WHEN CONCRETE CURB IS TO BE PLACED ON EXISTING CONCRETE BASE, USE #4 DEFORMED BARS, 10" LONG, 24" O.C., DOWELLED, AND SET IN QUICK SETTING CEMENT MORTAR
3. REDWOOD EXPANSION JOINTS SHALL BE INSTALLED IN CURB AT ALL PAVEMENT EXPANSION JOINTS.

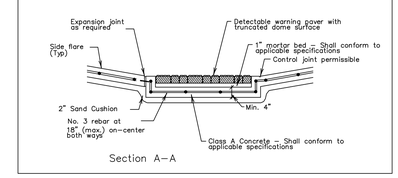
6" CONC. CURB DETAIL

N.T.S



DETECTABLE WARNING PAVER

SCALE: N.T.S.



Section A–A

ONE– CALL NOTIFICATION SYSTM

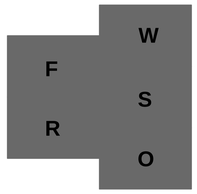
CALL BEFORE YOU DIG!!!

(713) 223–4567 (In Houston, Tx)

(New Statewide Number Outside Houston)

1–800–545–6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH1

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

	REVISION	DESCRIPTION	DATE
1	ADDENDUM NO. 3		10-07-2020

PROFESSIONAL SEALS

STATE OF TEXAS — FRED DALLY — 90904 — LICENSED PROFESSIONAL ENGINEER

10/07/2020

PAVEMENT DETAILS

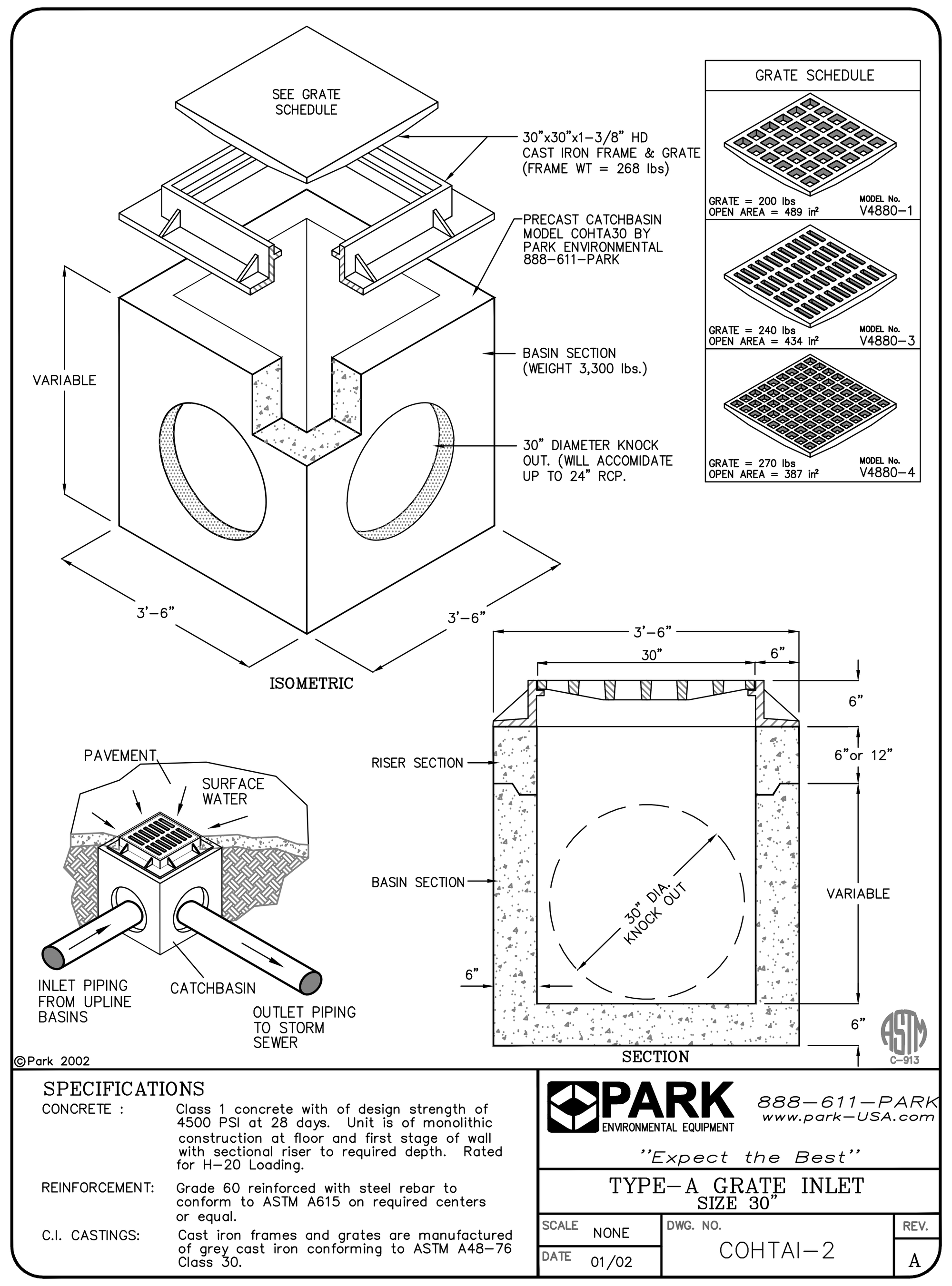
DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

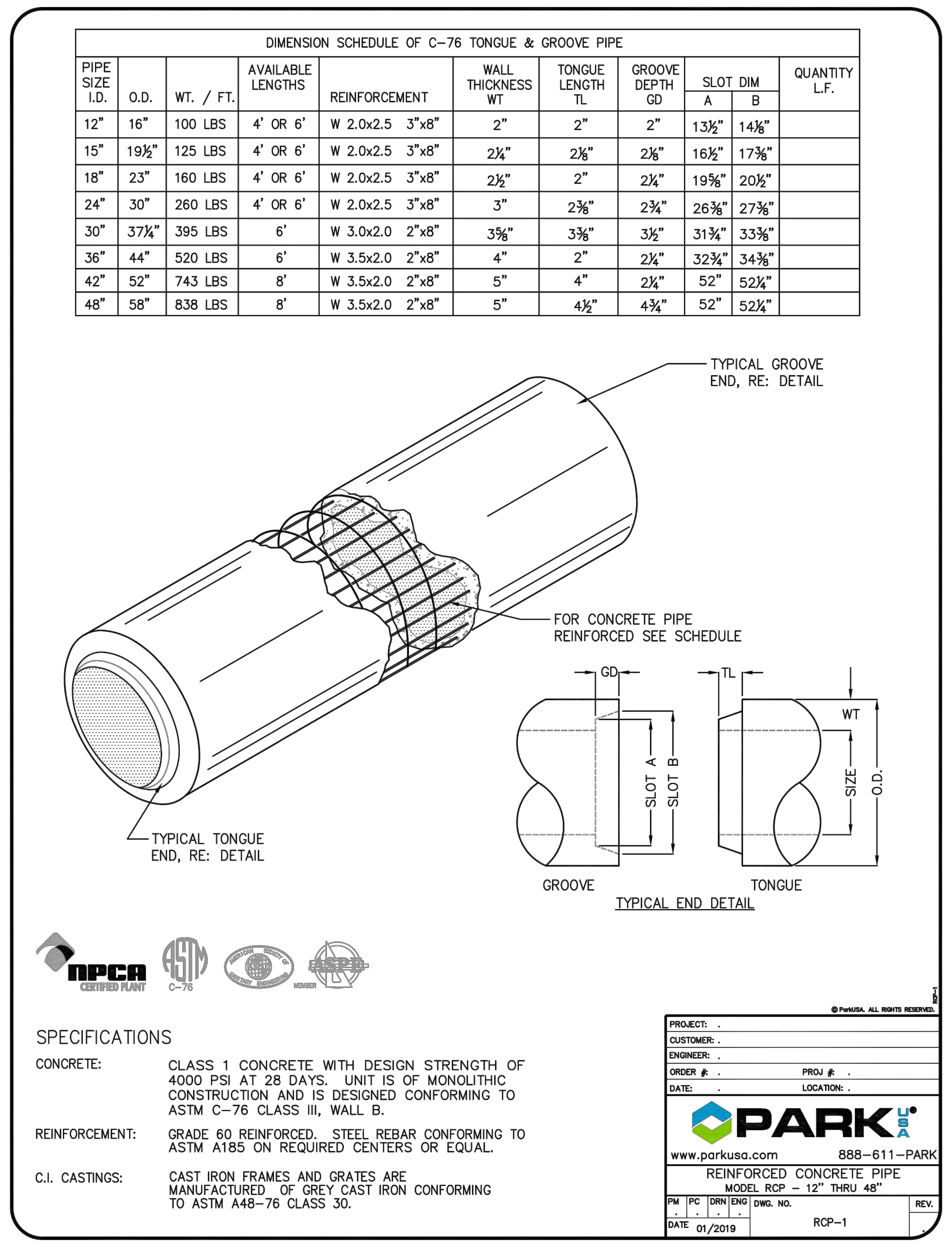
1

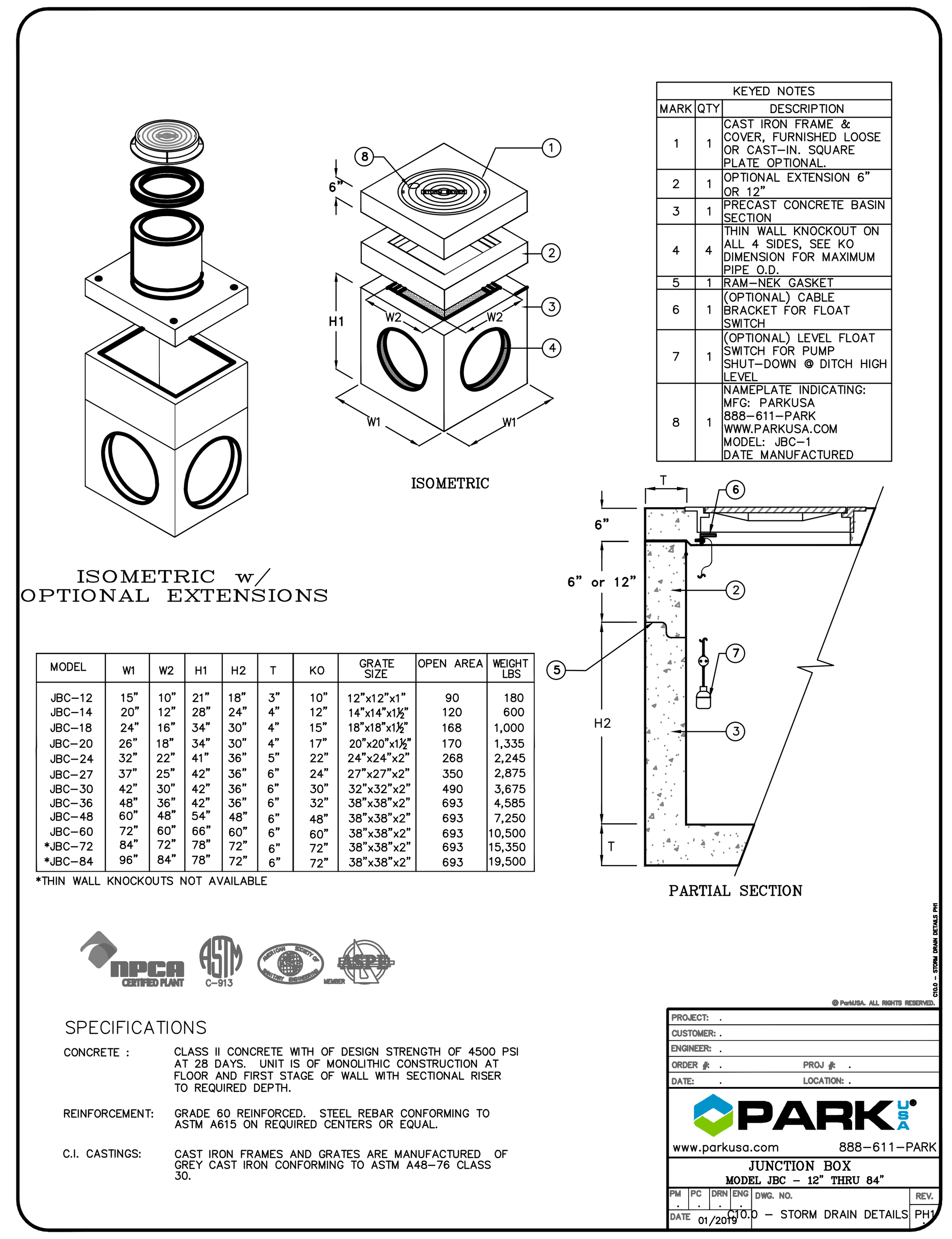
C9.0-PH1

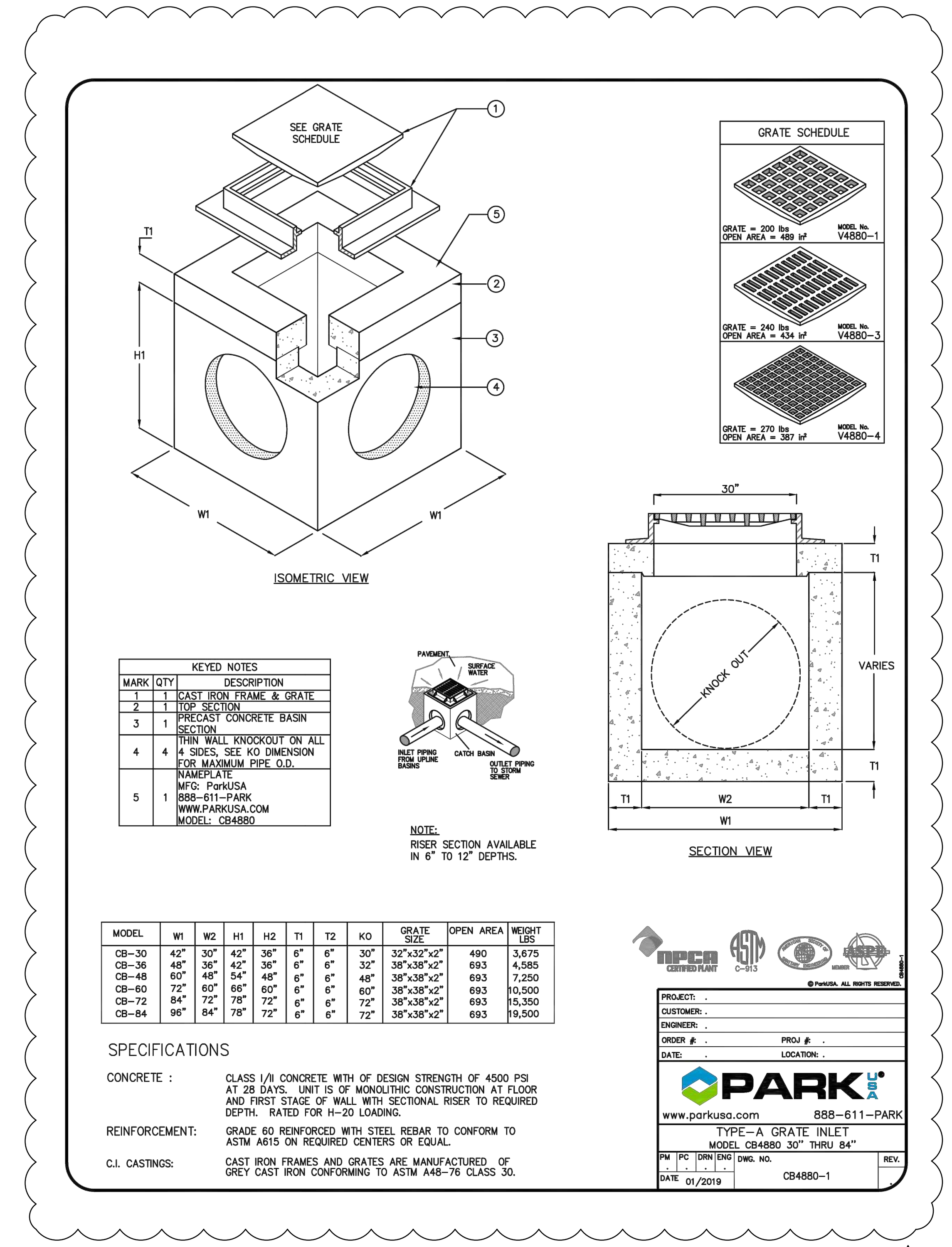
SHEET NUMBER

FILE PATH:
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM
File Path









ADS N-12® ST IB PIPE (PER AASHTO) SPECIFICATION

SCOPE
This specification describes 4- through 60-inch (100 to 1500 mm) ADS N-12 ST IB pipe (per AASHTO) for use in gravity flow drainage applications.

PIPE REQUIREMENTS
N-12 ST IB pipe (per AASHTO) shall have a smooth interior and annular exterior corrugations.
- 4- through 10-inch (100 to 250 mm) shall meet AASHTO M252, Type S
- 12- through 60-inch (300 to 1500 mm) shall meet AASHTO M294, Type S or ASTM F2306
- Manning's "n" value for use in design shall be 0.012

JOINT PERFORMANCE
Pipe shall be joined using a bell-and-spigot joint meeting AASHTO M252, AASHTO M294, or ASTM F2306. The joint shall be soil-tight and gaskets, when applicable, shall meet the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable wrap to ensure the gasket is free from debris. A joint lubricant supplied by the manufacturer shall be used on the gasket and bell during assembly.

FITTINGS
Fittings shall conform to AASHTO M252, AASHTO M294 or ASTM F2306.. Bell and spigot connections shall utilize a spun-on or welded bell and valley or saddle gasket meeting the soil-tight joint performance requirements of AASHTO M252, AASHTO M294 or ASTM F2306.

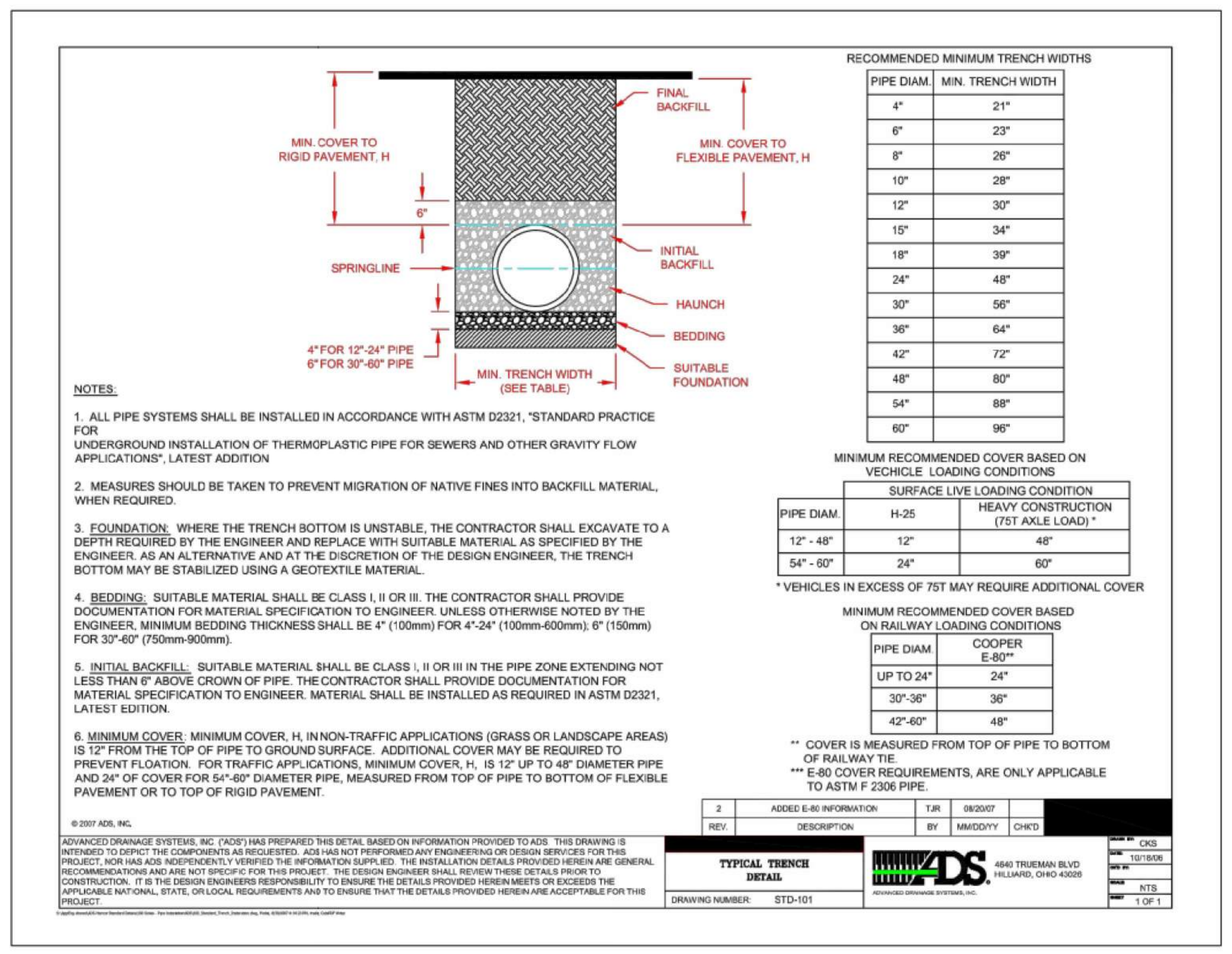
MATERIAL PROPERTIES
Virgin material for pipe and fitting production shall be high-density polyethylene conforming with the minimum requirements of cell classification 424420C for 4- through 10-inch (100 to 250 mm) diameters, or 435400C for 12- through 60-inch (300 to 1500 mm) diameters, as defined and described in the latest version of ASTM D3350, except that carbon black content should not exceed 4%. The 12- through 60-inch (300 to 1500 mm) virgin pipe material shall comply with the notched constant ligament-stress (NCLS) test as specified in Sections 9.5 and 5.1 of AASHTO M294 and ASTM F2306, respectfully.

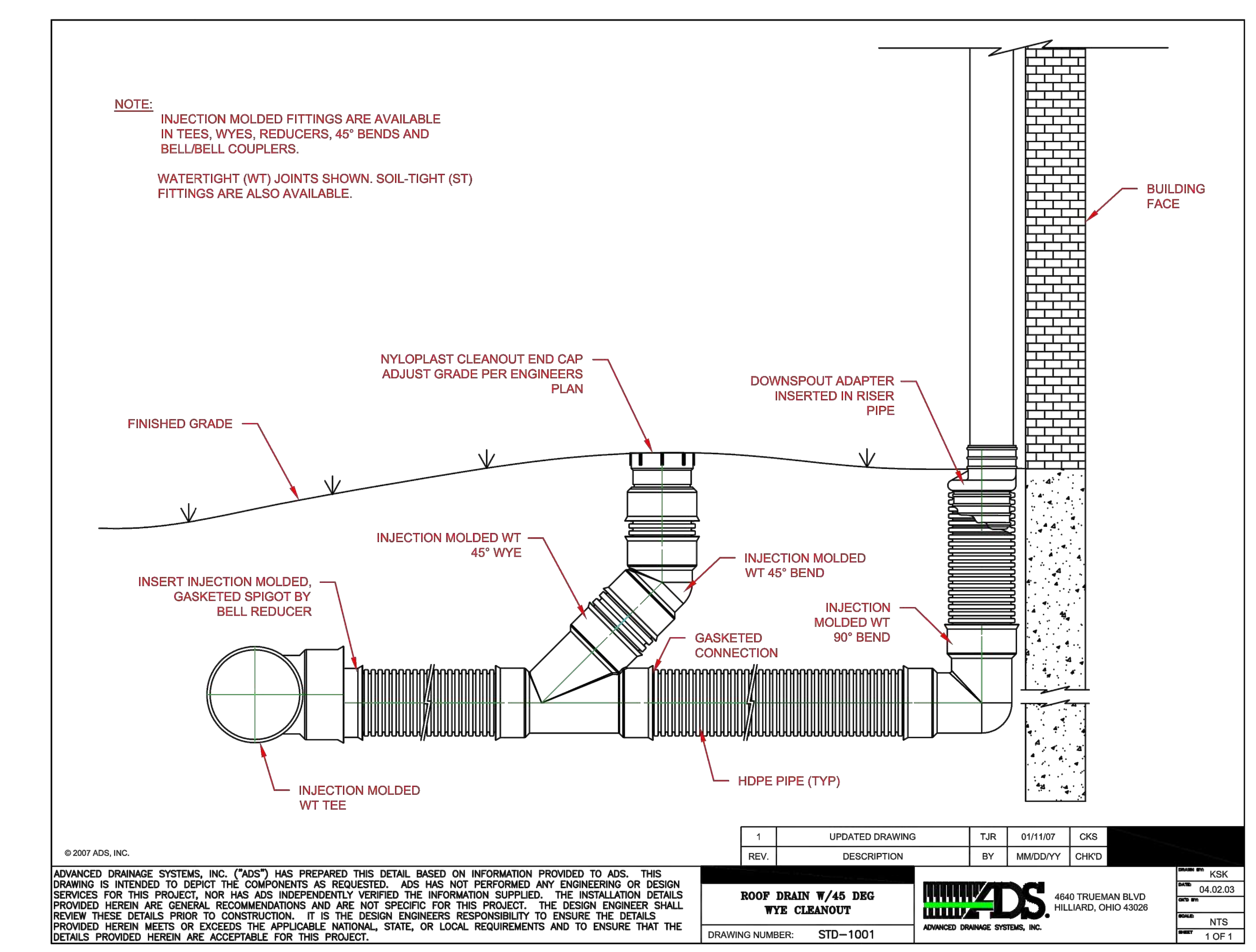
INSTALLATION
Installation shall be in accordance with ASTM D2321 and ADS published installation guidelines, with the exception that minimum cover in trafficked areas for 4- through 48-inch (100 to 1200 mm) diameters shall be one foot (0.3 m) and for 54- and 60-inch (1350-1500 mm) diameters, the minimum cover shall be 2 foot (0.6 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1, Class 2 (minimum 90% SPD) or Class 3 (minimum 90% SPD) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.01. Contact your local ADS representative or visit our website at www.ads-pipe.com for a copy of the latest installation guidelines.

PIPE DIMENSIONS

Nominal Pipe I.D.* in. (mm)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)	42 (1050)	48 (1200)	54 (1350)	60 (1500)
Nominal Pipe O.D.** in. (mm)	4.8 (122)	6.9 (175)	9.1 (231)	11.4 (290)	14.5 (368)	18 (457)	22 (559)	28 (711)	36 (914)	42 (1050)	48 (1200)	54 (1350)	61 (1549)	67 (1702)
Perforations	All diameters available with or without perforations.													

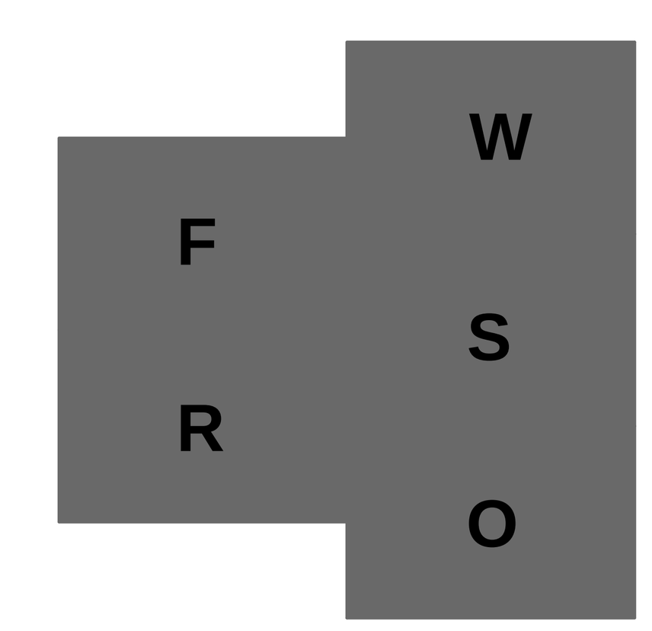
*Check with sales representative for availability by region.
**Pipe O.D. values are provided for reference purposes only, values stated for 12- through 60-inch are ±1 inch. Contact a sales representative for exact values.





ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/
Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com
TEL 713 871 8484
FAX 713 871 8440
ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH1
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

3	ADDENDUM NO. 3	10-07-2020

REVISION DESCRIPTION DATE

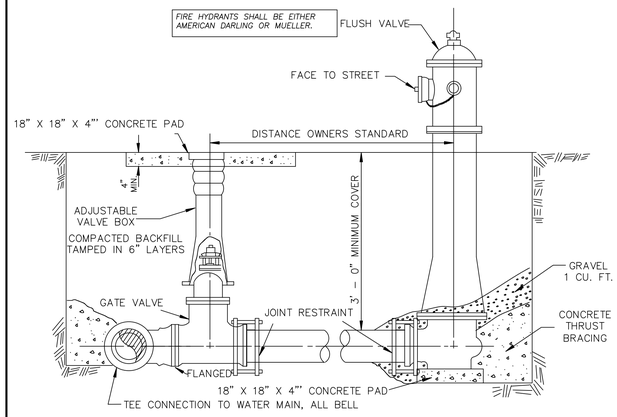
PROFESSIONAL SEALS
STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

STORM DRAIN DETAILS

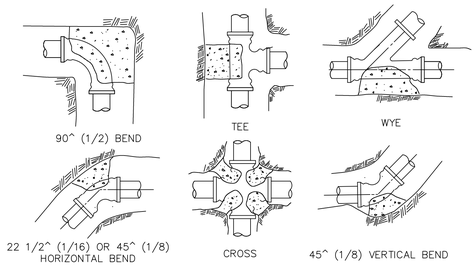
DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

C10.0-PH1
SHEET NUMBER

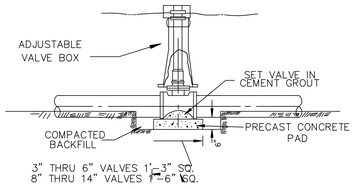
FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM



TYPICAL GATE VALVE AND FLUSH VALVE DETAILS



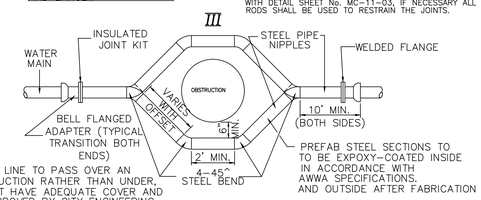
TYPICAL THRUST BLOCKS



BLOCKING FOR VALVES
14" AND SMALLER

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

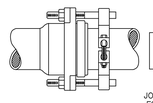
NOTES:
1. ALL MATERIALS AND COATINGS TO BE IN ACCORDANCE WITH ENGINEERING DEPARTMENT SPECIFICATIONS
2. INSULATED JOINT TO BE MADE UP USING INSULATING GASKETS, PLASTIC BOLT SLEEVES AND WASHERS OF INSULATING GASKET MATERIAL BACKED WITH ZINC–PLATED WASHERS, OR OTHER METHODS APPROVED SPECIFICALLY BY THE ENGINEERING DEPARTMENT.
3. NO FIELD FABRICATION OF STEEL WATER PIPE OFFSETS ALLOWED.
4. OFFSET SECTIONS SHALL BE THRUST–BLOCKED IN ACCORDANCE WITH DETAIL SHEET No. MC–11–03, IF NECESSARY ALL THREAD RODS SHALL BE USED TO RESTRAIN THE JOINTS.



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

STEEL WATER PIPE OFFSET ASSEMBLY

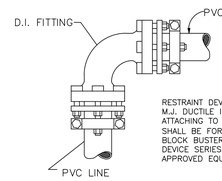
RESTRAINT FOR PVC PIPE BELL JOINTS
N.T.S.



RESTRAINT DEVICE FOR PVC PIPE BELL JOINTS SHALL BE FORD UNI–FLANGE BLOCK BUSTER SERIES 1350 OR APPROVED EQUAL.

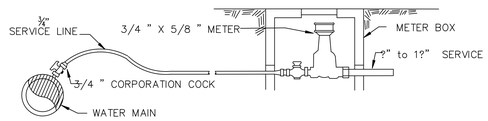
NOTE:
ALL BOLTS TO BE BURIED SHALL BE TYPE 304 STAINLESS STEEL.

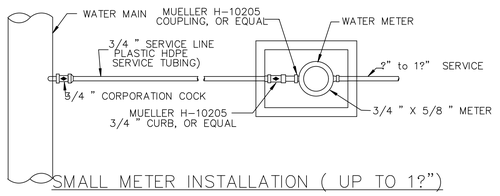
JOINT RESTRAINT DEVICE DETAILS FOR CAST IRON & DUCTILE IRON MECHANICAL JOINT FITTINGS AND PVC PIPE.
N.T.S.



RESTRAINT DEVICE FOR M.J. DUCTILE IRON FITTINGS ATTACHING TO PVC LINES SHALL BE FORD UNI–FLANGE BLOCK BUSTER RESTRAINT DEVICE SERIES 1300 OR APPROVED EQUAL.

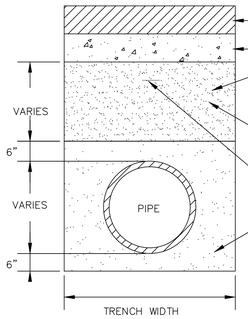
USE RESTRAINED JOINTS WHERE INDICATED ON PLANS



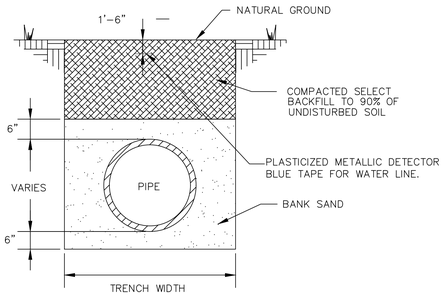


SMALL METER INSTALLATION (UP TO 1½")

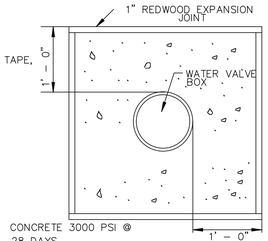
TYPICAL DETAILS WATER AND SANITARY SEWER (SDR 26/SDR 35)



BACKFILL DETAIL WATERLINE UNDER PAVEMENT

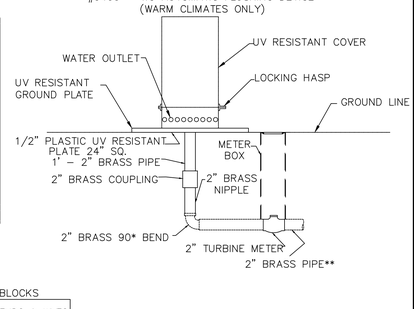


BACKFILL DETAIL NOT UNDER PAVEMENT



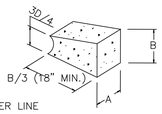
WATER VALVE BLOCKOUT

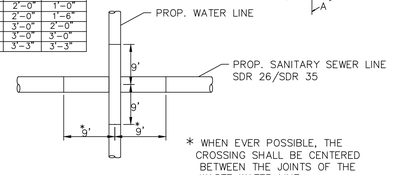
METER SHALL BE PURCHASED FROM THE CITY OF MONT BELVIEU #9400 – WC AUTOMATIC FLUSHING DEVICE (WARM CLIMATES ONLY)



MINIMUM DIMENSIONS FOR THRUST BLOCKS						
FITTING SIZE	TEES & PLUGS		90 BEND		45 BENDS & WYES	
	H	W	H	W	H	W
4"	1'–7"	1'–2"	1'–9"	1'–6"	1'–8"	0'–10"
6"	2'–0"	1'–11"	2'–5"	2'–2"	1'–10"	1'–7"
8"	2'–8"	2'–6"	3'–2"	3'–0"	2'–5"	2'–1"
10"	3'–4"	3'–3"	4'–0"	3'–10"	3'–0"	2'–9"
12"	4'–0"	3'–10"	4'–8"	4'–8"	3'–8"	3'–3"
14"	5'–5"	5'–10"	6'–6"	4'–11"	4'–9"	4'–5"
20"	5'–0"	5'–0"	6'–0"	6'–0"	5'–0"	4'–0"
24"	6'–0"	6'–0"	7'–0"	7'–0"	5'–0"	5'–0"
30"	7'–6"	7'–6"	8'–0"	8'–0"	6'–3"	6'–3"

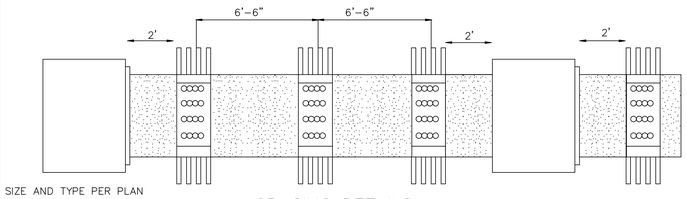
FITTING SIZE	REDUCERS & 22 ½ BENDS		11 ¼ BENDS	
	H	W	H	W
4"	1'–7"	0'–6"	0'–6"	0'–6"
6"	1'–9"	0'–10"	1'–0"	0'–6"
8"	1'–9"	1'–6"	1'–0"	1'–0"
10"	2'–2"	1'–11"	1'–6"	1'–0"
12"	2'–7"	2'–3"	2'–0"	1'–0"
14"	3'–5"	2'–5"	2'–0"	1'–6"
20"	3'–6"	3'–0"	3'–0"	2'–0"
24"	4'–6"	3'–0"	3'–0"	3'–0"
30"	4'–9"	4'–6"	3'–3"	3'–3"





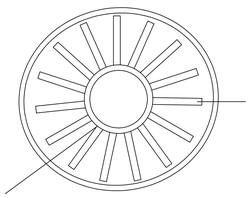
* WHEN EVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WASTE WATER LINE.

ENCASEMENT SPACER DETAILS



SIZE AND TYPE PER PLAN

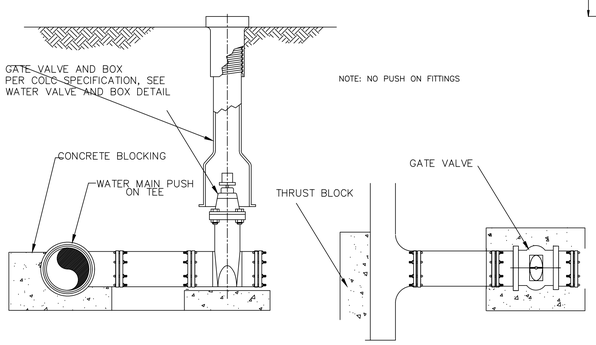
SPACING DETAILS



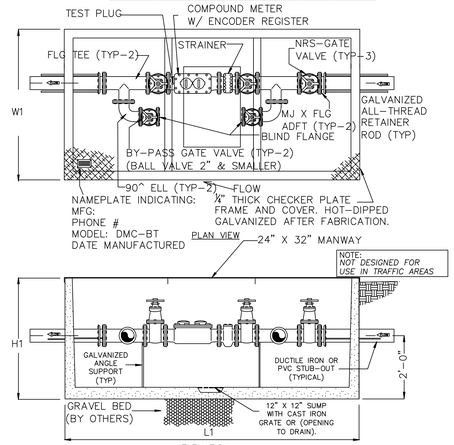
HIGH DENSITY POLYETHYLENE CASING SPACERS RACI TYPE F/G O.C. OR APPROVED EQUAL BY CONTRACTOR.

CARRIER PIPE AND SIZE PER PLAN FURNISHED AND INSTALLED BY CONTRACTOR

RACI CASING SPACERS					
DR 18 C900 PVC PIPE			SDR 35 PVC SEWER PIPE		
PIPE SIZE	STEEL CASING DIA.	RACI SPACERS	PIPE SIZE	STEEL CASING DIA.	RACI SPACER
4"	10"	2F OR 2N	6"	10"	2F, 1G OR 1M ,1N OR 1E, 2H OR 2P, 1Q
6"	12"	2F, 1G OR 2M OR 1E,1H OR 2P	8"	12"	3F, 1G OR 1M, 2N OR 2E, 1H OR 1P, 2Q
8"	14"	3F, 1G OR 2M, 1N OR 2E, 1H OR 2P, 1Q	10"	16"	4F OR 3M OR 3E OR 3P
10"	16"	4F OR 3M OR 3E OR 3P	12"	18"	5F OR 2M, 2N OR 3E, 1H OR 2P, 2Q
12"	20"	5F OR 3M, 1N OR 3E, 1H OR 3P, 1Q	15"	22"	6F OR 3M, 2N OR 4E, OR 3P, 2Q
14"	22"	6F OR 4M OR 4E OR 4P	18"	24"	7F OR 5M, OR 5E OR 5P
16"	24"	7F OR 5M, OR 4E, 1H OR 5P			

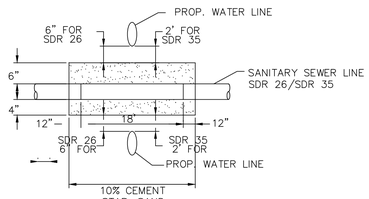


BLOCKING FOR GATE VALVES
16" AND LARGER



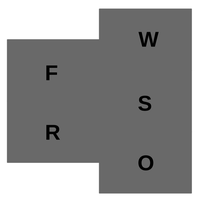
Specifications	
CONCRETE:	Class 1 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and forst stage of wall with sectional riser to requird depth. Gross empty weight of as indicated.
REINFORCEMENT:	Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.
STEEL COVER:	¼" steel skid–resistant floor plate welded to 3" angle frame with (2) 3"x2–3/8" I beam supports.
Engineering Data	The meter assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. As manufactured by Park Equipment, Houston Tx. 713–937–7602

LARGE METER INSTALLATION (2" & UP)



ONE– CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223–4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1–800–545–6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Daily & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Daily & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities PH1

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
2	ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS

WATER DETAILS

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_R&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

C11.0-PH1
SHEET NUMBER

FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM

NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITION. SEE SPECIFICATIONS FOR REQUIREMENTS IN OTHER CONDITIONS.

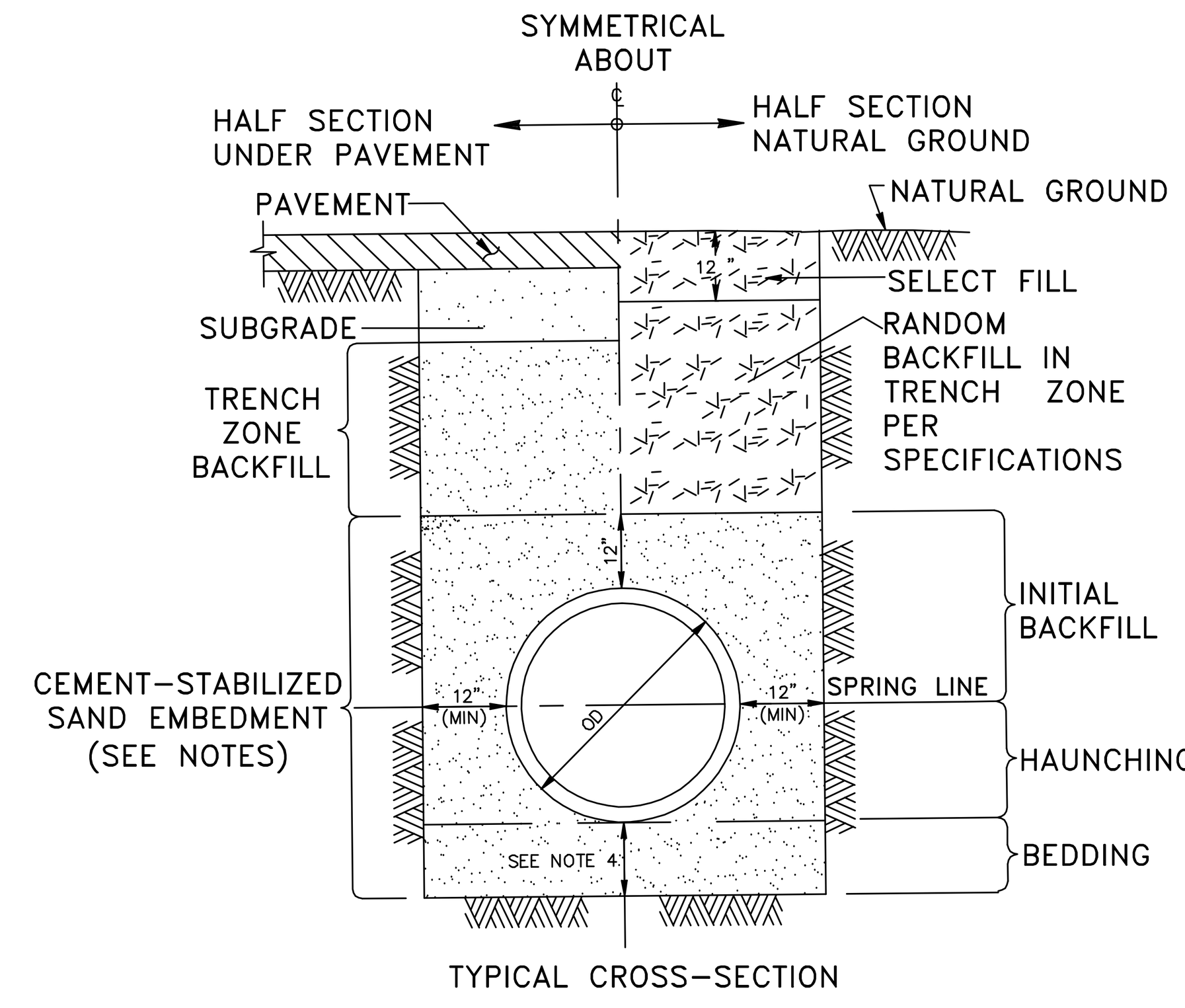
2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "A" FOR THE NOMINAL PIPE SIZE:

NOMINAL PIPE SIZE	"A"
18" TO 30"	24"
OVER 30"	36"

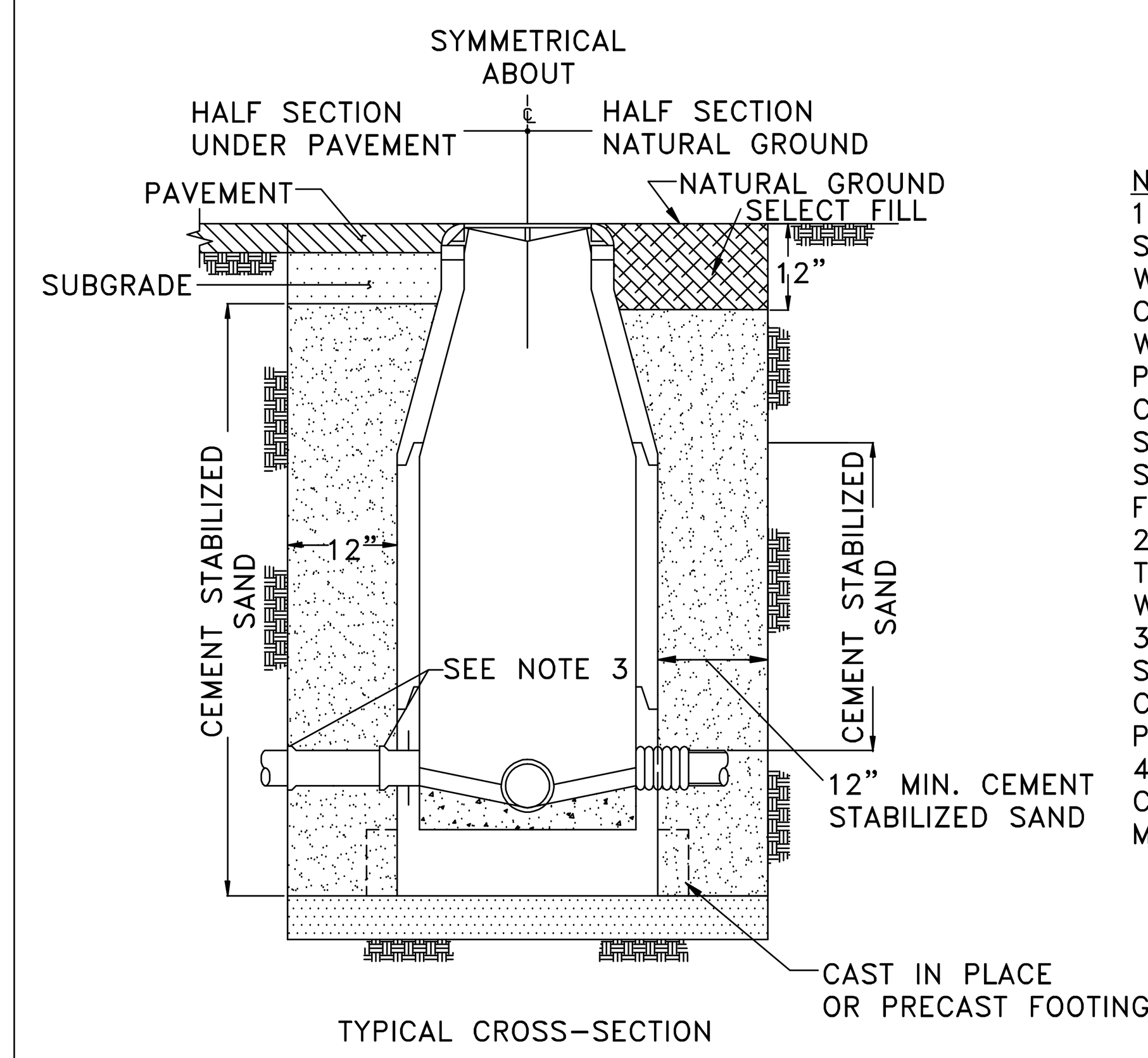
3. MAX TRENCH WIDTH SHALL BE NOT GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.

4. MIN. BEDDING DEPTH SHALL BBE 12 INCHES.

5. ALTERNATIVE EMBEDMENT BACKFILL MATERIALS FOR FORCE MAINS MAY BE ALLOWED



SANITARY SEWER BEDDING & BACKFILL



NOTES:
1. GROUTING OF MANHOLE STRUCTURE ANNULAR SPACE WILL BE PERMITTED IN CASES WHERE INSUFFICENT WORK SPACE EXISTS FOR PLACEMENT AND COMPACTATION OF CEMENT STABILIZED SAND. PER CLP STANDARD SPECIFICATION FOR TUNNEL GROUT.
2. THIS DETAIL ALSOAPPLIES TO BACKFILL OF SHAFTS WITHOUT STRUCTURES.
3. ARRANGE PIPE JOINTS AS SHOWN WHEN USING RIGID CONNECTION TO CAST IN PLACE MANHOLE BASE.
4. NEED COAL-TAR EPOXY COATING ON INSIDE OF MANHOLE OR EQUAL.

SANITARY SEWER MANHOLE

SANITARY SEWER

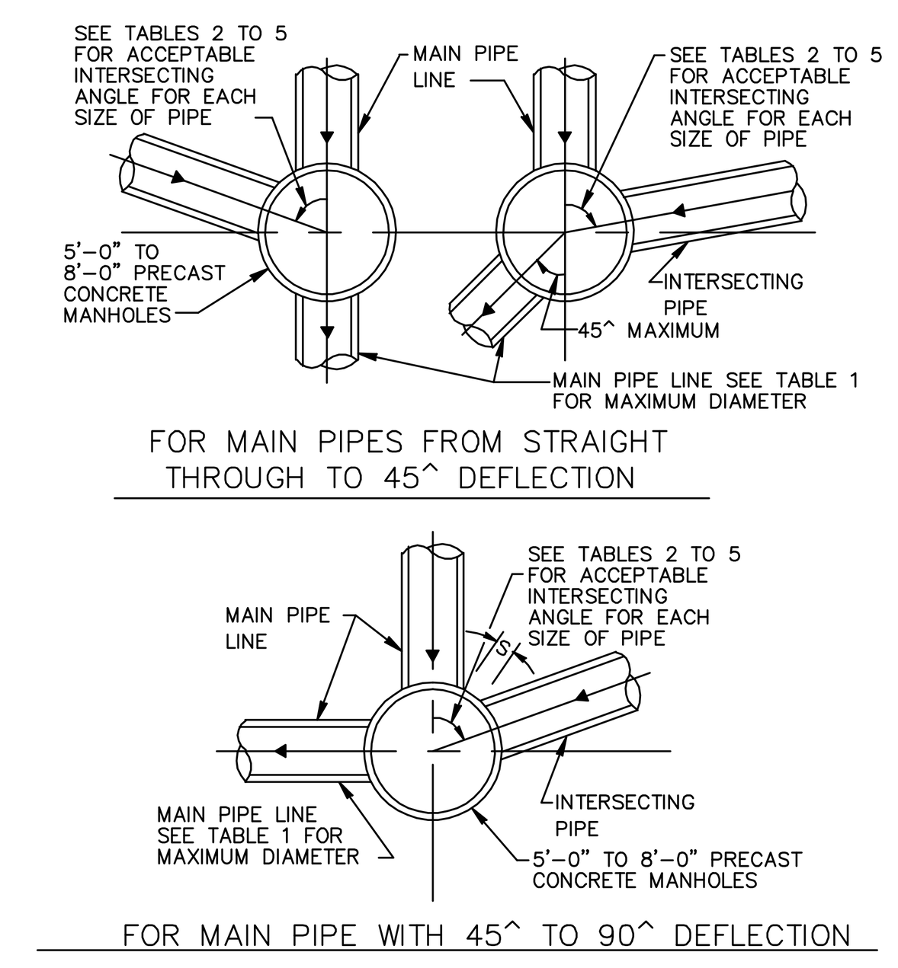


TABLE 1

MAXIMUM MAIN PIPE DIAMETER (I D) IN INCHES

MANHOLE DIAMETER (FT)	STRAIGHT THROUGH TO 45^ DEFLECTION	WITH 90^ DEFLECTION	TABLE TO BE USED
5	36	27	2
6	42	33	3
7	48	36	4
8	60	42	5

NOTES TO SPECIFIER:

1."_" INDICATES THAT A SPECIAL DESIGN OR THE NEXT LARGER MANHOLE SIZE SHALL BE USED.

2.TABLES 2 TO 5 ARE BASED ON A MIN SEPARATION DISTANCE "S" OF 15.5" OR INTERSECTION PIPE OD/2, WHICHEVER IS GREATER, BETWEEN MAIN AND INTERSECTING PIPES ALONG THE MANHOLE INSIDE WALL ARC.

3. PIPE WALL THICKNESS USED IN TABLES 2 TO 5 ARE BASED ON RCP. THE DESIGN ENGINEER MAY CALCULATE TO SEE IF THINNER WALL PIPES CAN MEET THE SEPARATION CRITERIA FOR ANGLES SMALLER THAN THE TABLES ALLOW.

4. LIMITATIONS TO BASE HEIGHT ARE BASER ON RESISTING BUOYANT UPLIFT FORCES BASED ON WATER AT GROUND SURFACE AND A SAFETY FACTOR OF 1.20.

5. A SPECIAL DESIGN IS REQUIRED IF MANHOLE ID IS GREATER THAN 8 FT.

5'-0" TO 8'-0" DIAMETER PRECAST CONCRETE MANHOLE NOTES
N.T.S

NOTES ON USE OF STANDARD DETAIL SAN-015

TABLE 3

MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR 6'-0" DIA MANHOLE

INTERSECTING PIPE ID SIZES (INCHES)	MINIMUM INTERSECTING ANGLE IN DEGREES FOR VARIOUS MAIN PIPE ID SIZES IN INCHES											
	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"	42"
8	40	42	45	49	51	54	57	61	63	67	70	78
10		44	47	50	53	56	59	62	65	69	72	79
12			50	54	56	60	62	66	68	72	75	83
15				57	59	62	65	69	71	75	78	85
18					62	65	68	71	74	78	81	88
21						68	71	74	77	81	84	–
24							74	77	80	84	87	–
27								83	85	89	–	–
30				*					–	–	–	–
33										–	–	–
36											–	–
42												–

TABLE 4

MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR 7'-0" DIA MANHOLE

INTERSECTING PIPE ID SIZES (INCHES)	MINIMUM INTERSECTING ANGLE IN DEGREES FOR VARIOUS MAIN PIPE ID SIZES IN INCHES												
	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"	42"	48"
8	35	36	39	42	44	47	49	52	54	57	59	65	71
10		38	40	43	45	48	50	53	55	59	61	67	73
12			43	46	48	51	53	56	58	61	64	70	76
15				48	50	53	55	58	61	64	66	72	78
18					58	56	58	61	63	66	69	74	81
21						58	60	63	66	69	71	77	83
24							63	66	68	71	74	79	86
27								70	72	76	78	84	90
30				*					78	81	83	89	–
33										86	88	–	–
36											–	–	–
42												–	–
48													–

TABLE 5

MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR 8'-0" DIA MANHOLE

INTERSECTING PIPE ID SIZES (INCHES)	MINIMUM INTERSECTING ANGLE IN DEGREES FOR VARIOUS MAIN PIPE ID SIZES IN INCHES														
	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"	42"	48"	54"	60"
8	30	32	34	36	38	41	43	45	47	50	52	56	61	67	74
10		33	35	38	40	42	44	46	48	51	53	58	63	68	77
12			38	40	42	44	46	49	51	53	55	60	65	71	79
15				42	44	47	48	51	53	56	58	62	67	73	81
18					46	49	51	53	55	58	66	64	70	75	83
21						51	53	55	57	60	62	67	72	77	85
24							55	57	59	62	64	69	74	79	89
27								61	63	66	68	73	78	83	–
30									67	70	72	77	82	87	–
33					*					74	76	81	86	–	–
36											81	86	–	–	–
42												–	–	–	–
48													–	–	–
54														–	–
60															–

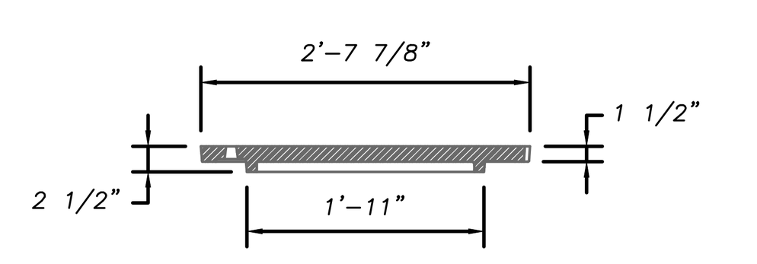
TABLE 2

MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR 5'-0" DIA MANHOLE

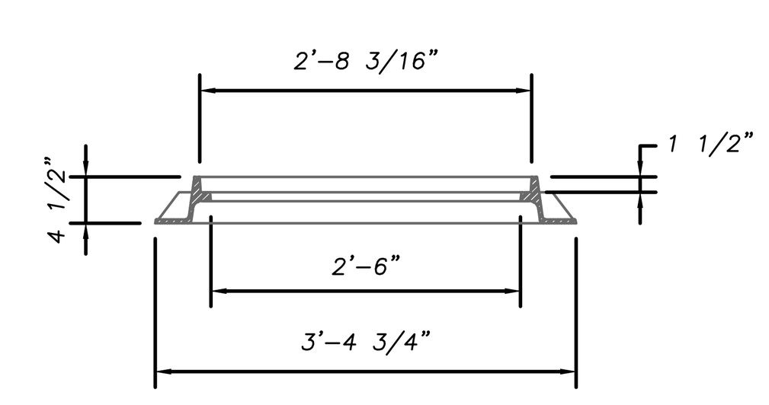
INTERSECTING PIPE ID SIZES (INCHES)	MINIMUM INTERSECTING ANGLE IN DEGREES FOR VARIOUS MAIN PIPE ID SIZES IN INCHES										
	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"
8	49	50	54	58	61	66	69	73	77	82	86
10		53	57	61	64	68	71	76	79	84	88
12			61	65	68	72	75	80	83	88	–
15				68	71	75	79	83	87	–	–
18					75	79	82	87	90	–	–
21						83	86	90	–	–	–
24							90	–	–	–	–
27				*				–	–	–	–
30									–	–	–
33										–	–
36											–

*NOT APPLICABLE
(INTERSECTING PIPE GREATER THAN MAIN PIPE)

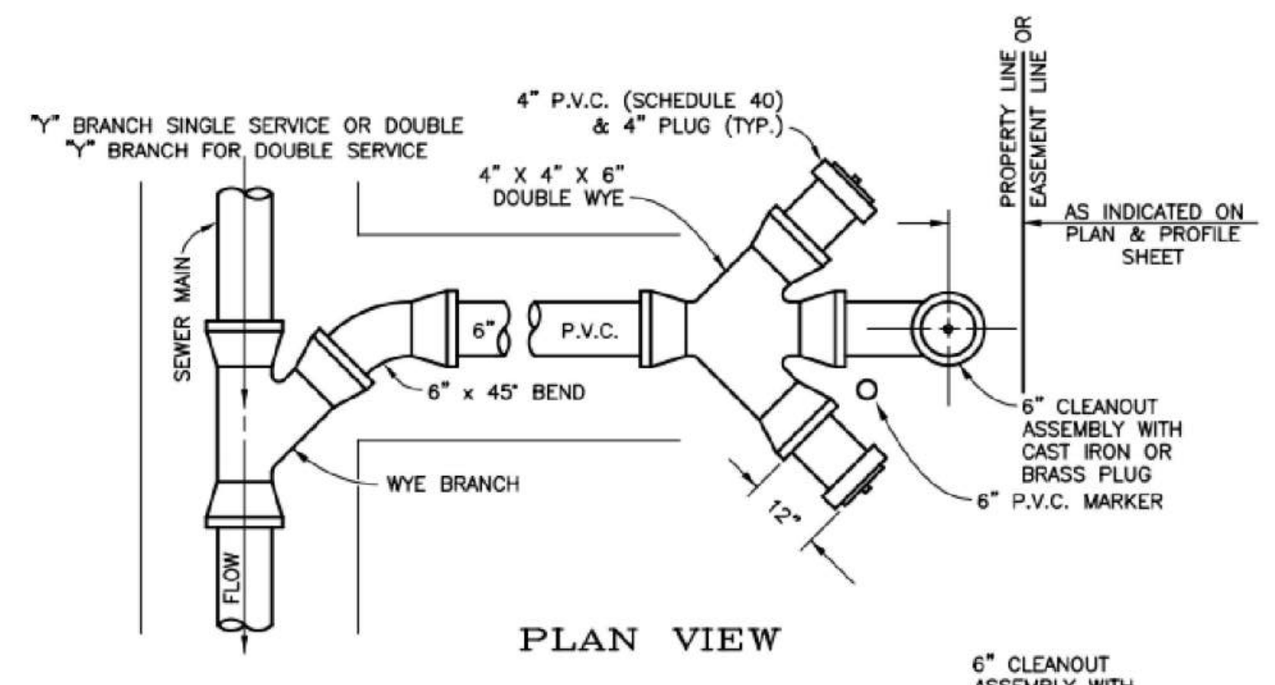
PLAN VIEW
FRAME AND COVER
SCALE: 1" = 1'-0"

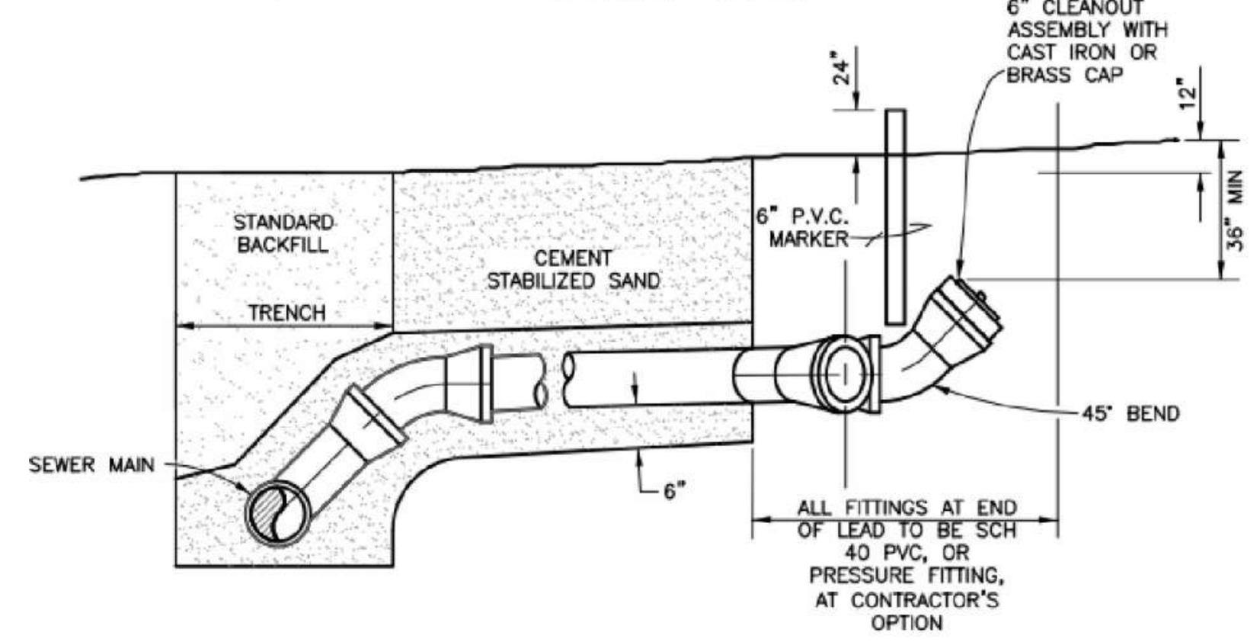


COVER SECTION A-A
SCALE: 1" = 1'-0"



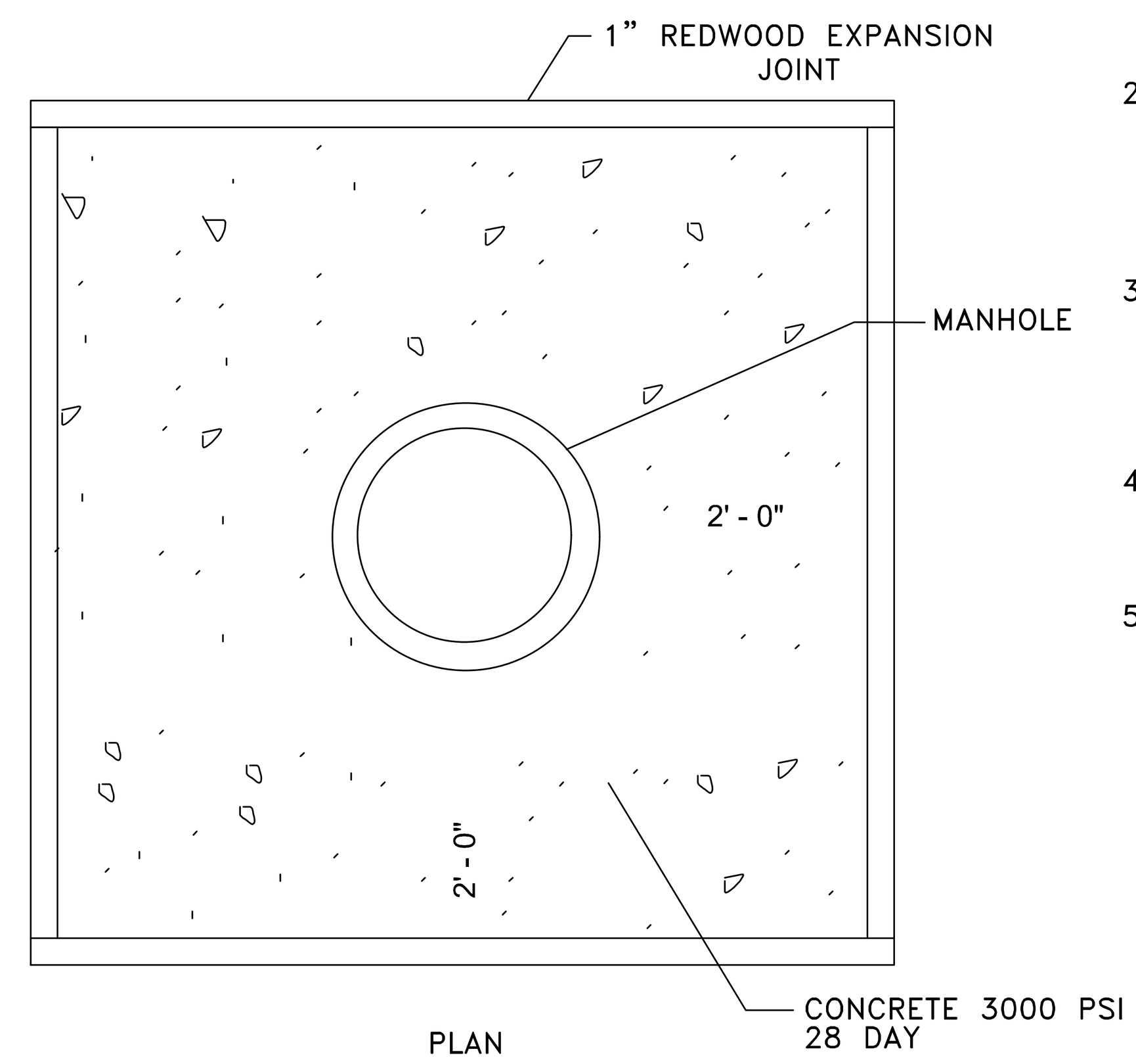
FRAME SECTION A-A
SCALE: 1" = 1'-0"



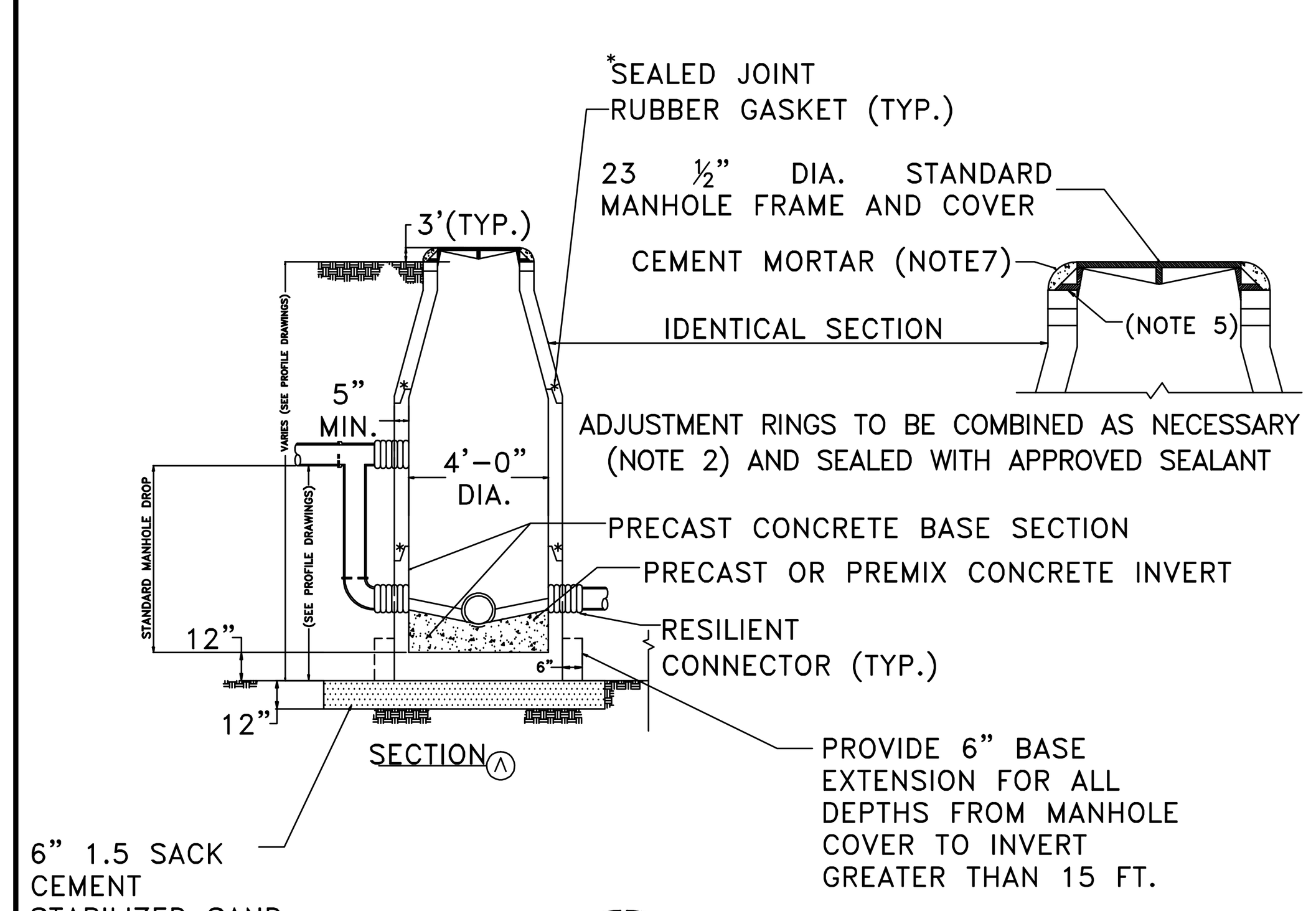


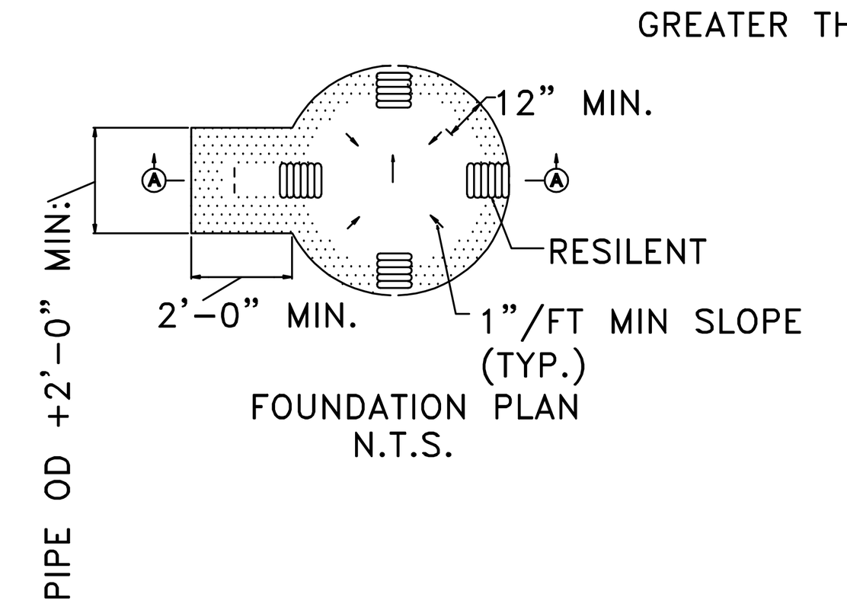
NOTE: ALL FITTINGS ON MAIN LINE AND UP TO THE END OF LEAD ARE TO BE PRESSURE FITTINGS.

SANITARY SEWER SERVICE CONNECTION



STANDARD MANHOLE BLOCKOUT FOR CONCRETE PAVEMENT

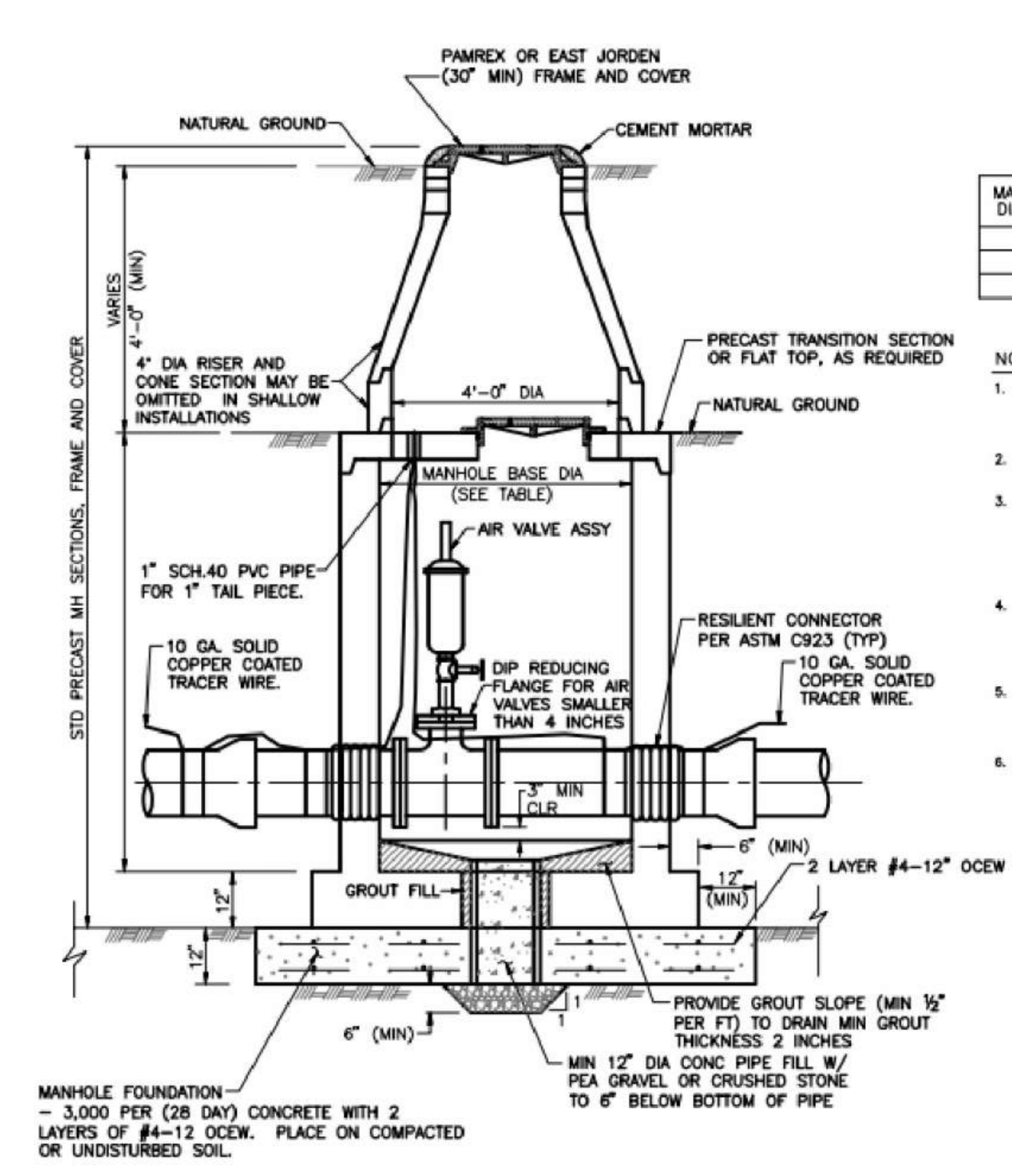




FOUNDATION PLAN
N.T.S.

4'-0" DIA PRECAST CONCRETE MANHOLE

NOTES:
1. DEPTH MANHOLE DETERMINES SECTIONS REQUIRED.
2. PRECAST CONCRETE RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST 12". THE TOTAL HEIGHT OF THE ADJUSTMENT RINGS SHALL NOT EXCEED 1'-6".
3. MANHOLE WALL THICKNESS FOR DEPTH EXCEEDING 12'0" SHALL BE 12" THICK.
4. MANHOLE DROP AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR IN PLAN AND PROFILE DRAWING.
5. SEAT MANHOLE FRAME IN SEALANT PER CITY OF LA PORTE STANDARD SPECIFICATION.
6. ECCENTRIC PRECAST CONCRETE MANHOLE MAY BE USE.
7. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS.
8. MIN. REINFORCING IN THE PRECAST CONCRETE BASE SHALL BE #5@ 8 EW.
9. PROVIDED BACKFILL TO MATCH ADJACENT PIPE TRENCH BACKFILL PER CITY OF LA PORTE STANDARD SPECIFICATION.
10. TEE INCLUDED IN PRICE OF DROP.
11. HORSE-SHOE SHAPED OPENINGS OR BREAKOUT OPENINGS SHALL NOT BE ACCEPTED.

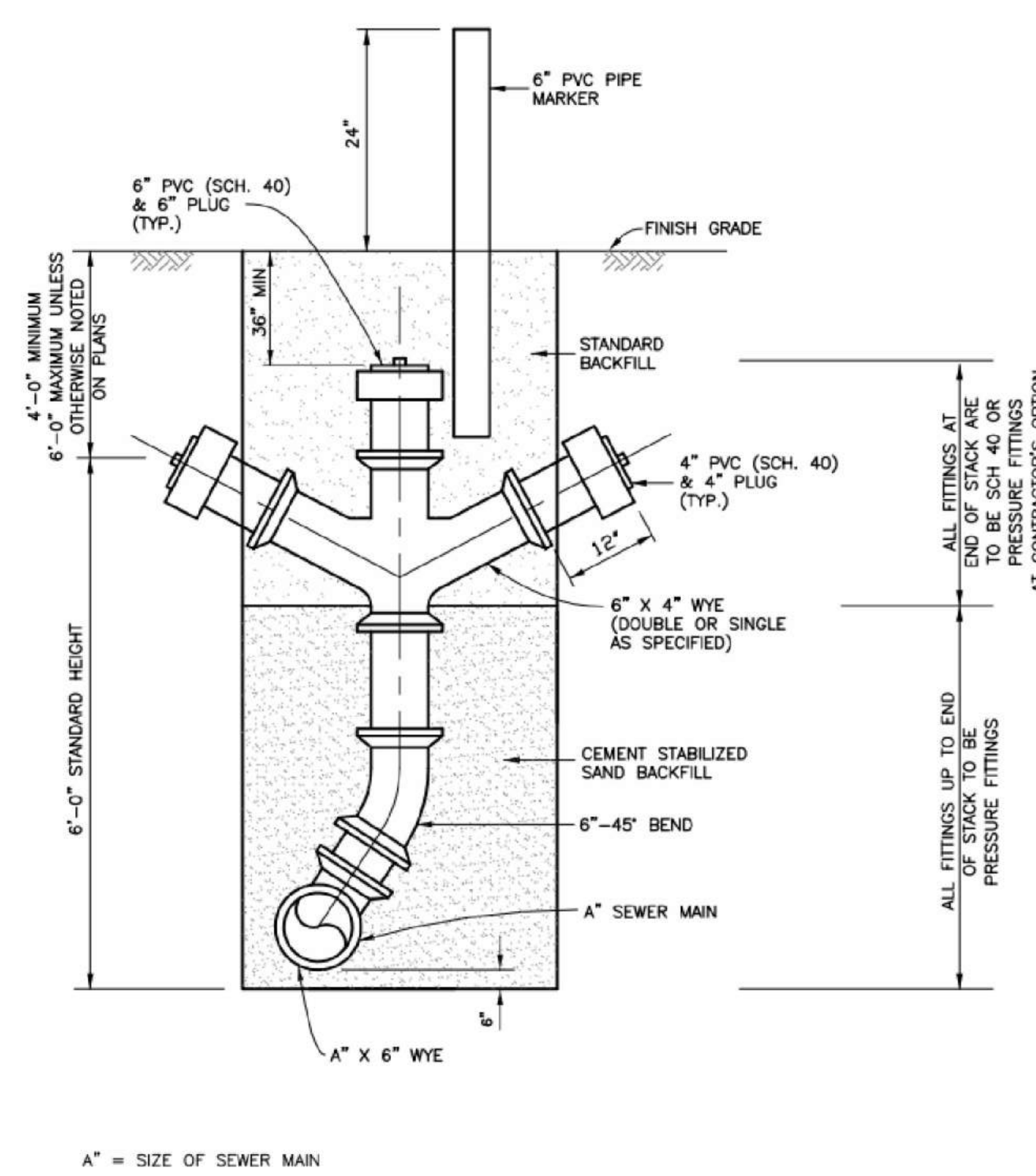


TABLE

MANHOLE BASE DIAMETER (FT)	MAX FORCE MAIN DIAMETER
5	8
6	16
8	36

NOTES:
1. AIR RELEASE VALVE MAY BE 2" APCO 401 SAVV OR PRE-APPROVED EQUAL OR AIR AND VACUUM RELEASE VALVE AS NOTED ON PLAN AND PROFILE SHEET.
2. ALL PIPING AND FITTINGS SHALL BE STAINLESS STEEL.
3. PROVIDE LINED DUCTILE IRON PIPE, THICK. CLASS 53, FOR FORCE MAIN WITHIN 12" OF OUTSIDE FACE OF MANHOLE. JOINTS WITHIN MANHOLE MAY BE FLANGED (AS SHOWN) OR GROOVED (PER ASTM 606) WITHIN MANHOLE, WITH 316 STAINLESS STEEL BOLTS.
4. MANHOLE TOP MAY BE CONCENTRIC CONE, ECCENTRIC CONE, OR FLAT TOP WITH ECCENTRIC OPENING. PROVIDE 30" MINIMUM FRAME & COVER. ORIENT ECCENTRIC OPENING OPPOSITE SIDE FROM AIR VALVE.
5. PROVIDE VENTED MANHOLE FOR AIR AND VACUUM VALVE INSTALLATIONS AND AT LOCATIONS INDICATED ON THE DRAWINGS.
6. BACKFILL MANHOLE WITH CEMENT STABILIZED SAND TO 12 INCHES ABOVE FORCE MAIN OR MINIMUM OF FOUR (4') FEET FROM TOP OF RIM, WHICHEVER IS HIGHER.

SANITARY SEWER AIR RELEASE OR AIR/ VACCUM RELEASE VALVE MANHOLE

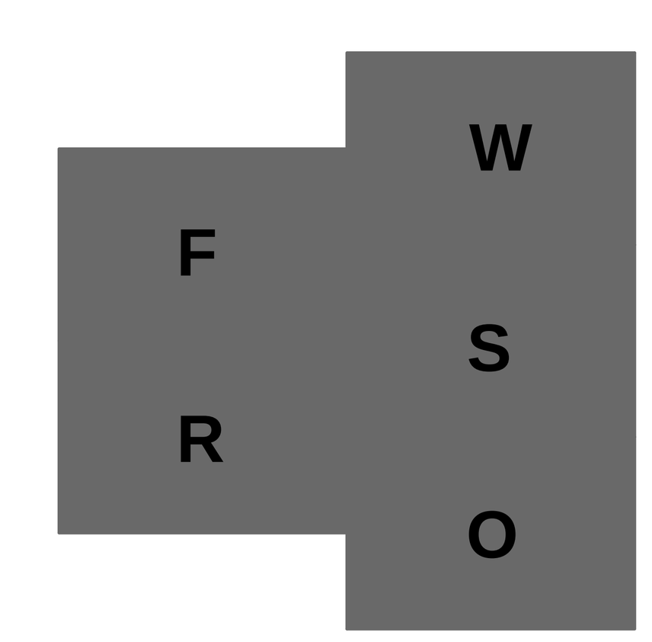


A" = SIZE OF SEWER MAIN

SANITARY SEWER STACK

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/
Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com
TEL 713 871 8484
FAX 713 871 8440
ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

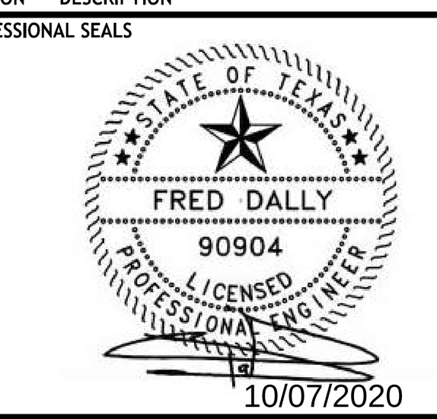
Galveston County
Road & Bridge Department Facilities PH1
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

3	ADDENDUM NO. 3	10-07-2020

REVISION DESCRIPTION DATE

PROFESSIONAL SEALS

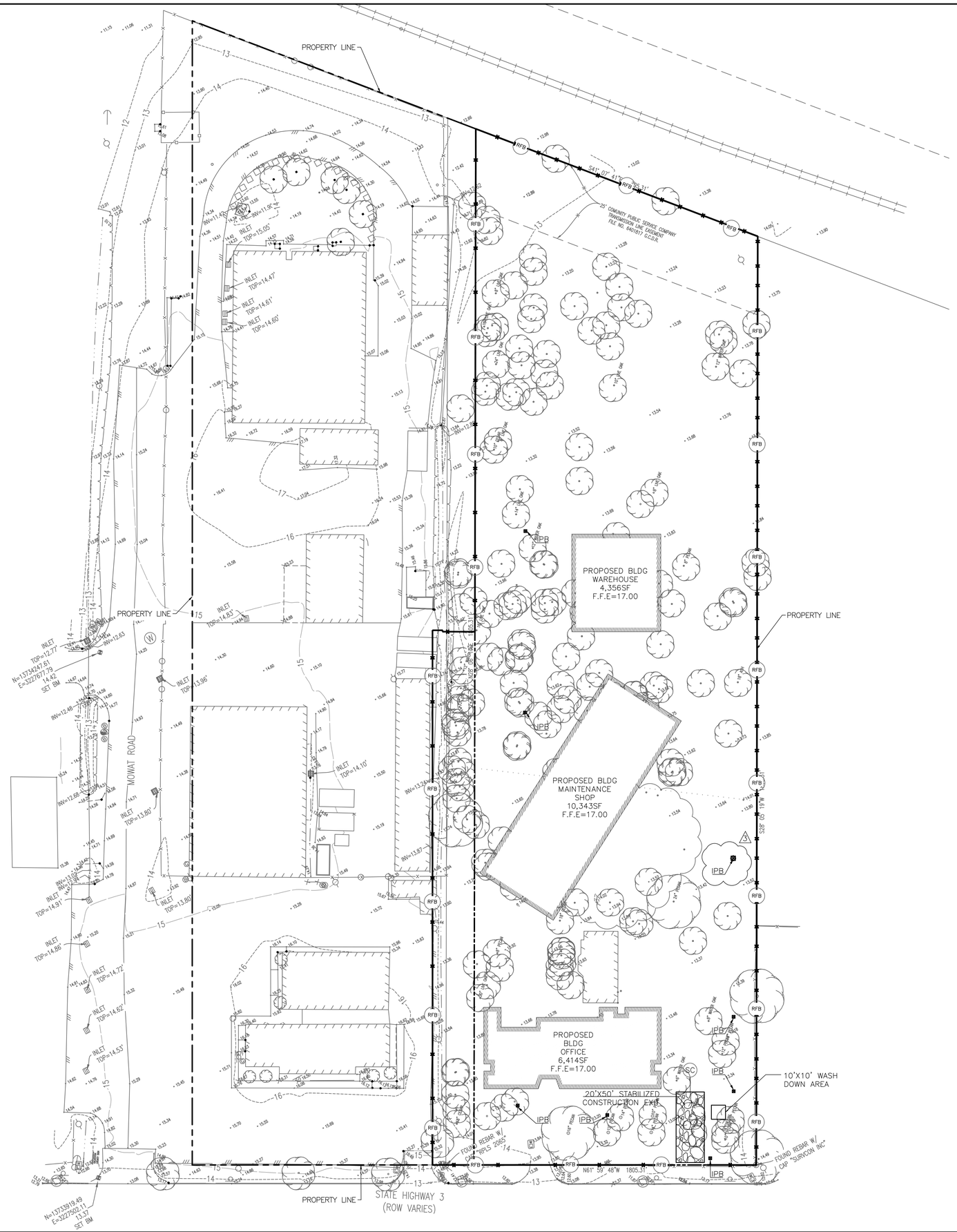


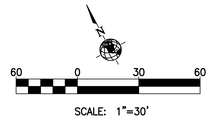
SANITARY SEWER DETAILS

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER 418198	PROJECT ABBREVIATION GC_R&B
ORIGINAL ISSUE ISSUE FOR PERMIT	DATE 07 OCT 2020

C12.0-PH1
SHEET NUMBER

FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM





SWPPP LEGEND

- RFB — REINFORCED FILTER FABRIC BARRIER AT LEAST 2' BEHIND BACK OF CURB/PAVEMENT
- SC — STABILIZED CONSTRUCTION EXIT.
- IPB — INLET PROTECTION BARRIER (IPB).
- WASH DOWN AREA.

SWPPP CONSTRUCTION NOTES

1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATION SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP SILT AND /OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.

2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATED MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.

3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FROM THE EXCAVATED AREA.

4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.

5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

- 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.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND/ OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING.
SLOPES 4:1 OR STEPPER SHALL BE REPLACED BY CLOCK SODDING.

CONCRETE TRUCK/EQUIPMENT WASH OUT

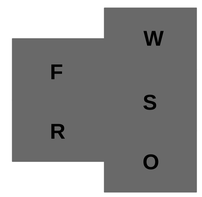
1. CONTRACTOR(S) SHALL NOT WASH OUT CONCRETE TRUCKS OR EQUIPMENT INTO STREET DEAD ENDS, RIGHT-OF-WAYS, GUTTERS, STORM SEWER INLETS, WATERWAYS, CREEKS OR ANY LOCATION WHERE THE MATERIALS COULD REACH THE STORM SEWER (MS4) SYSTEM. ROCKED CUL-DE-SACS ARE NOT APPROVED WASH OUT AREAS. ALL DEPOSITED MATERIALS SHALL BE REMOVED AND PROPERLY DISPOSED OF AT THE COMPLETION OF WORK.

2. WASH OUT CONCRETE TRUCKS AND/OR EQUIPMENT ONLY IN A DESIGNATED, CONFINED WASHOUT AREA WHERE THE WATER WILL FLOW INTO A TEMPORARY PIT IN A DIRT AREA OR ONTO STOCKPILES OF AGGREGATE BASE OR SAND. THIS AREA MUST BE AN IDENTIFIED LOCATION.

3. COLLECT AND RETURN SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE TO A STOCKPILE OR DISPOSE OF THE WASTE IN A TRASH CONTAINER.

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City /
San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities PH1

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

SWPP PLAN

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_R&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

3

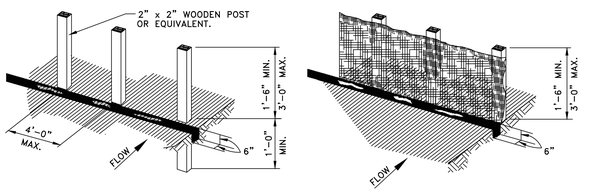
C13.0-PH1

SHEET NUMBER

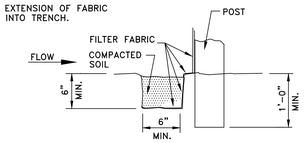
FILE PATH:
USER NAME: File Path
DATE STAMP: 6/26/2008 2:02:08 PM

1. SET POSTS AT REQUIRED SPACING AND DEPTH. EXCAVATE A 6" x 6" TRENCH UPSLOPE ALONG THE LINE OF POSTS.

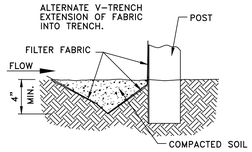
2. ATTACH FILTER FABRIC TO POSTS AND INSTALL IT INTO THE TRENCH. BACKFILL THE TRENCH AND COMPACT THE EXCAVATED SOIL.



EXTENSION OF FABRIC INTO TRENCH.



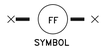
ALTERNATE V-TRENCH EXTENSION OF FABRIC INTO TRENCH.



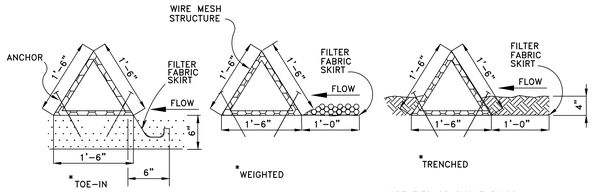
GENERAL NOTES:

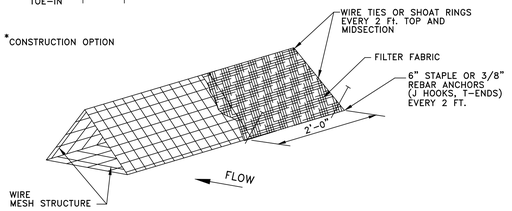
1. SET POSTS AT 4–FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM.
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE–THIRD OF THE HEIGHT OF THE FENCE.

FILTER FABRIC FENCE



SYMBOL

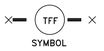




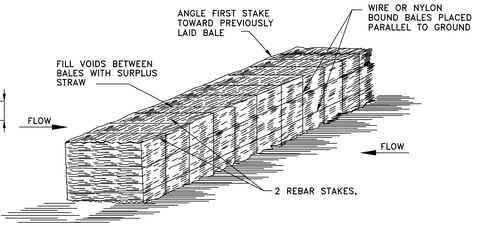
GENERAL NOTES:

1. PLACE BARRIER IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BARRIER.
2. USING ONE CONTINUOUS SECTION OF FILTER FABRIC, WRAP FABRIC AROUND WIRE MESH AND EXTEND FABRIC TO FORM SKIRT ON THE UPSTREAM SIDE.
3. WEIGHT SKIRT WITH A CONTINUOUS LAYER OF 3–INCH TO 5–INCH OPEN GRADED ROCK, OR TOE IN SKIRT WITH SIX INCHES WITH MECHANICALLY COMPACTED MATERIAL.
4. SECURELY ANCHOR BARRIER AND SKIRT IN PLACE USING 6–INCH WIRE STAPLES ON 2–FOOT CENTERS ON BOTH EDGES, OR STAKE USING 18–INCH BY 3/8 INCH REBARS (T–ENDS, J–HOOKS).
5. FILTER FABRIC SHALL BE LAPPED OVER ENDS 6 INCHES TO COVER SEGMENT JOINTS. FASTEN JOINTS WITH GALVANIZED SHOAT RINGS OR EQUIVALENT.
6. THE BARRIER STRUCTURE SHALL BE WELDED WIRE MESH, 18 INCHES ON EACH SIDE.

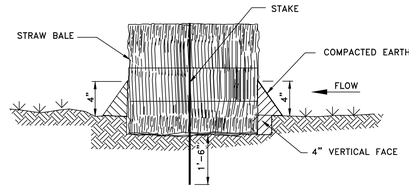
TRIANGULAR FILTER FABRIC FENCE



SYMBOL



STRAW BALE FENCE



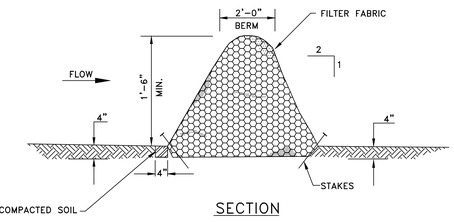
SECTION

GENERAL NOTES:

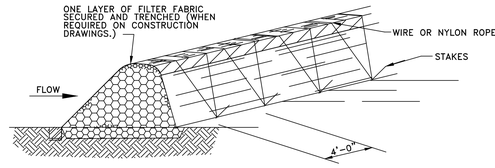
1. LIMIT USE TO ONSITE SWALES FOR PURPOSES OF LOW FLOW VELOCITY DISSIPATION FOR EROSION CONTROL. USE STRAW BALE FENCES TO TREAT OVERLAND FLOW ONLY. DO NOT USE STRAW BALE FENCES TO TREAT FLOW IN CHANNELS.
2. PLACE BALES IN A ROW WITH ENDS TIGHTLY ABUTTING ADJACENT BALES. FILL THE VOIDS BETWEEN BALES WITH SURPLUS STRAW. PLACE BALES WITH BINDING PARALLEL TO GROUND SURFACE.
3. IMBED EACH BALE AT LEAST 4 INCHES IN THE SOIL.
4. SECURELY ANCHOR BALES IN PLACE BY REBAR STAKES. DRIVE STAKES THROUGH THE BALES AND AT LEAST 18 INCHES INTO THE GROUND. ANGLE THE STAKE IN EACH BALE TOWARD THE PREVIOUS BALE TO FORCE THE BALES TOGETHER.
5. BIND BALES WITH WIRE OR NYLON ROPE TIED ACROSS THE STRAW BALES.
6. REPLACE WITH NEW STRAW BALE FENCE EVERY TWO MONTHS.
7. WATTLES STAKED INTO THE GROUND ARE A PREFERRED SUBSTITUTE FOR STRAW BALE FENCES.

STRAW BALE FENCE

SYMBOL



SECTION



GENERAL NOTES:

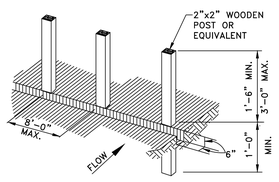
1. LIMIT USE TO ONSITE SWALES FOR PURPOSES OF LOW FLOW VELOCITY DISSIPATION FOR EROSION CONTROL. USE BRUSH BERMS TO TREAT OVERLAND FLOW ONLY. DO NOT USE BRUSH BERMS TO TREAT FLOW IN CHANNELS.
2. PLACE WOODY BRUSH AND BRANCHES HAVING A DIAMETER OF LESS THAN 2 INCHES WITH A 6–INCH OVERLAP. AVOID INCORPORATION OF ANNUAL WEEDS AND SOIL INTO BRUSH BERM.
3. MINIMUM HEIGHT OF THE BRUSH BERM IS 18 INCHES, MEASURED FROM THE TOP OF THE EXISTING GROUND AT THE UPSLOPE TOE TO THE TOP OF THE BERM.
4. HAND PLACE BRUSH BERMS ALONG CONTOUR LINES. MACHINE PLACEMENT OF BRUSH BERMS IS NOT PERMITTED.
5. IMBED BRUSH BERM AT LEAST 4 INCHES INTO THE SOIL.
6. ANCHOR BRUSH BERMS USING WIRE OR NYLON ROPE ACROSS THE BERM WITH A MINIMUM TENSION OF 50 POUNDS.
7. SECURELY TIE ROPE TO 18–INCH REBAR STAKES DRIVEN INTO THE GROUND ON 4–FOOT CENTERS ON BOTH SIDES OF THE BERM.
8. PERFORM MAINTENANCE AS NEEDED.

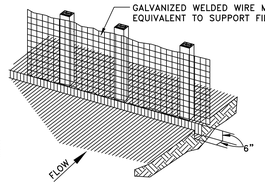
BRUSH BERM

SYMBOL

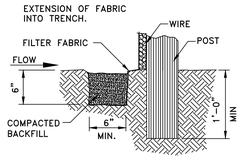
1. SET POSTS AT REQUIRED SPACING AND DEPTH. EXCAVATE 6" x 6" TRENCH UPSLOPE ALONG THE LINE OF POSTS.

2. SECURE MESH FENCING TO POSTS

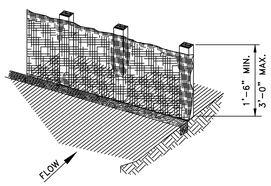




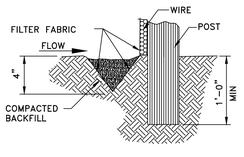
EXTENSION OF FABRIC INTO TRENCH.



3. ATTACH FILTER MATERIAL TO WIRE FENCE AND EXTEND IT INTO THE TRENCH. BACKFILL AND COMPACT THE EXCAVATED SOIL.



ALTERNATE V–TRENCH EXTENSION OF FABRIC INTO TRENCH

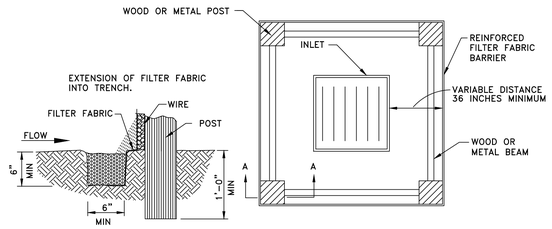


GENERAL NOTES:

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 IN DEPTH.

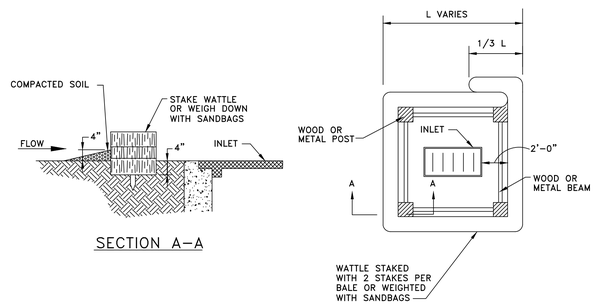
REINFORCED FILTER FABRIC BARRIER

SYMBOL



SECTION A–A PLAN

SEE REINFORCED FILTER FABRIC BARRIER DETAIL FOR REINFORCED FILTER FABRIC BARRIER REQUIREMENTS

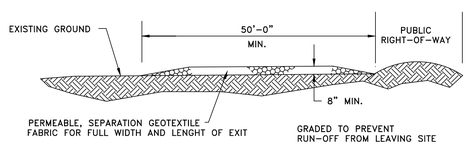


SECTION A–A PLAN

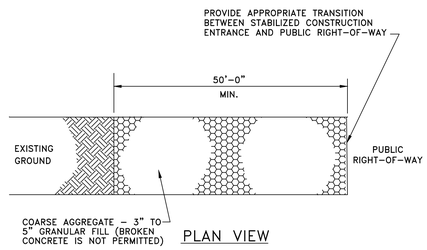
NOTE:
TYPICALLY STRAW BALES ARE NOT RECOMMENDED FOR INLET PROTECTION BARRIERS.

INLET PROTECTION BARRIERS FOR STAGE I INLETS

SYMBOL



PROFILE



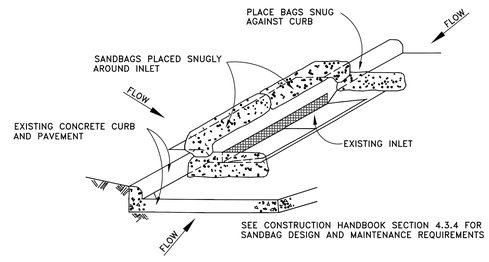
PLAN VIEW

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 INCLUDE
   –CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.
   –WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 6 INCHES.
   –STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.

STABILIZED CONSTRUCTION ACCESS

SYMBOL



GENERAL NOTES:

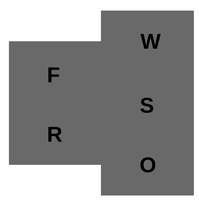
1. BAGS OR WATTLES CAN BE USED FOR THIS APPLICATION.
2. PROVIDE WOVEN OR UNWOVEN GEOTEXTILE FILTER FABRIC FOR BAGS.
3. PROVIDE COARSE SAND AND AGGREGATE MIX FOR FILL MATERIAL FOR BAGS. USE ONLY PARTICLES CONSISTING OF CLEAN, HARD, DURABLE MATERIALS FREE FROM ADHERENT COATINGS, SALT, ALKALI, DIRT, CLAY, LOAM, SHALE, SOFT OR FLAKY MATERIALS, OR ORGANIC AND INJURIOUS MATTER.
4. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE–THIRD THE HEIGHT OF THE BARRIER.

INLET PROTECTION BARRIERS FOR STAGE II INLETS

SYMBOL

ONE– CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223–4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1–800–545–6005

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities PH1

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

	REVISION	DESCRIPTION	DATE
2	ADDENDUM NO. 3		10-07-2020

PROFESSIONAL SEALS

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

SWPPP DETAILS

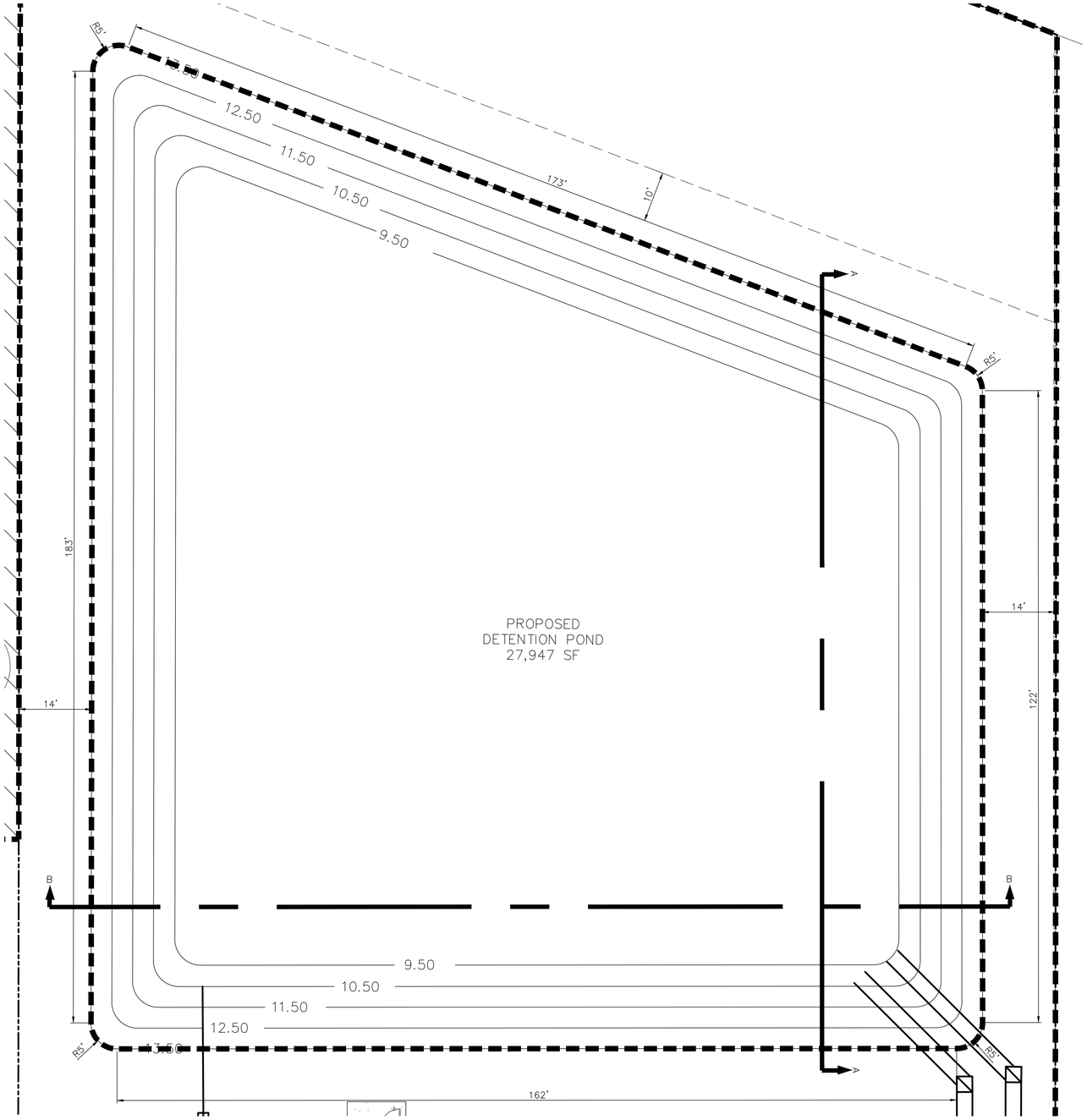
DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_R&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

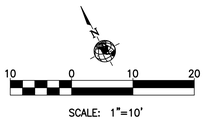
2

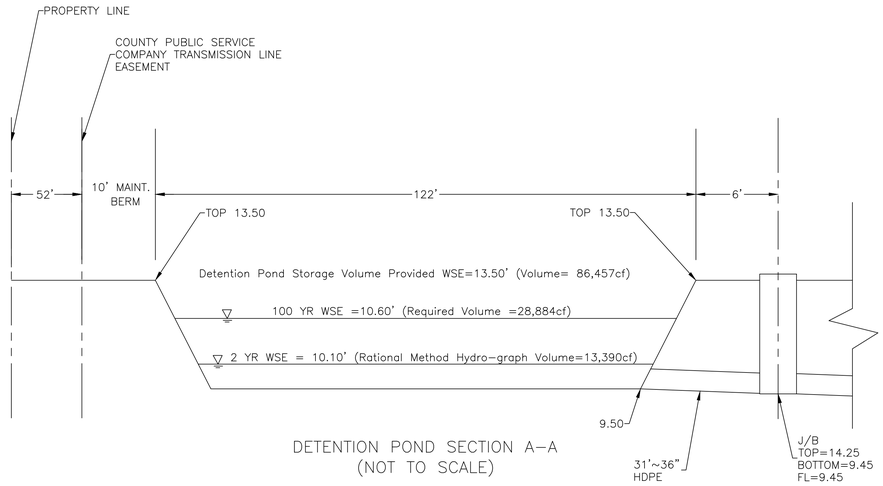
C14.0-PH1

SHEET NUMBER

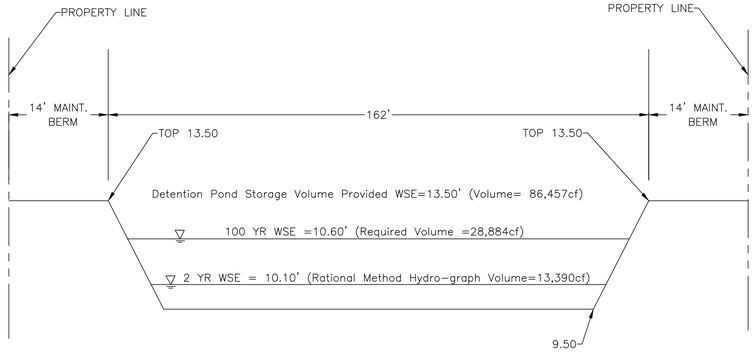
FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:09 PM



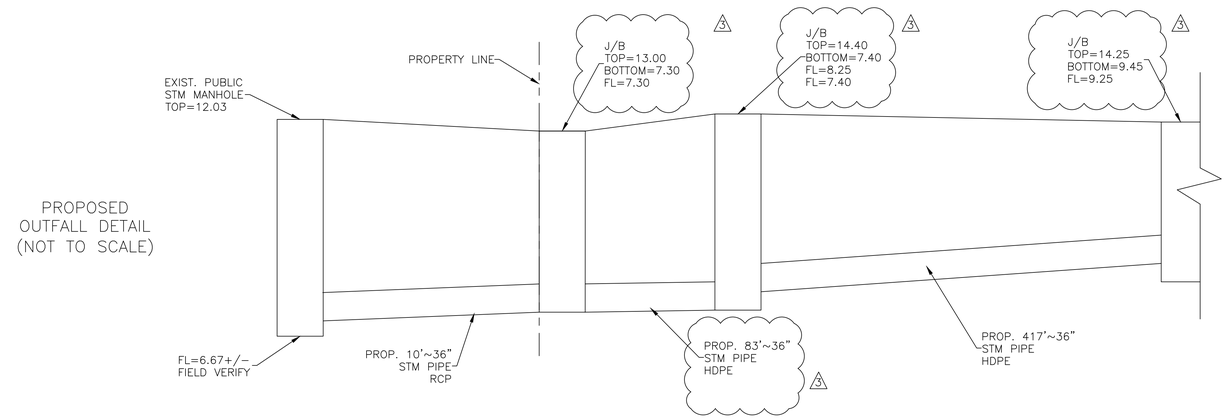




DETENTION POND SECTION A–A
(NOT TO SCALE)



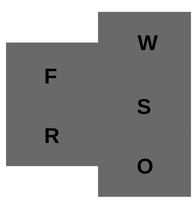
DETENTION POND SECTION B–B
(NOT TO SCALE)



PROPOSED
OUTFALL DETAIL
(NOT TO SCALE)

ONE– CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223–4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1–800–545–6005

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City /
San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH1

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

3	ADDENDUM NO. 3	10-07-2020

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

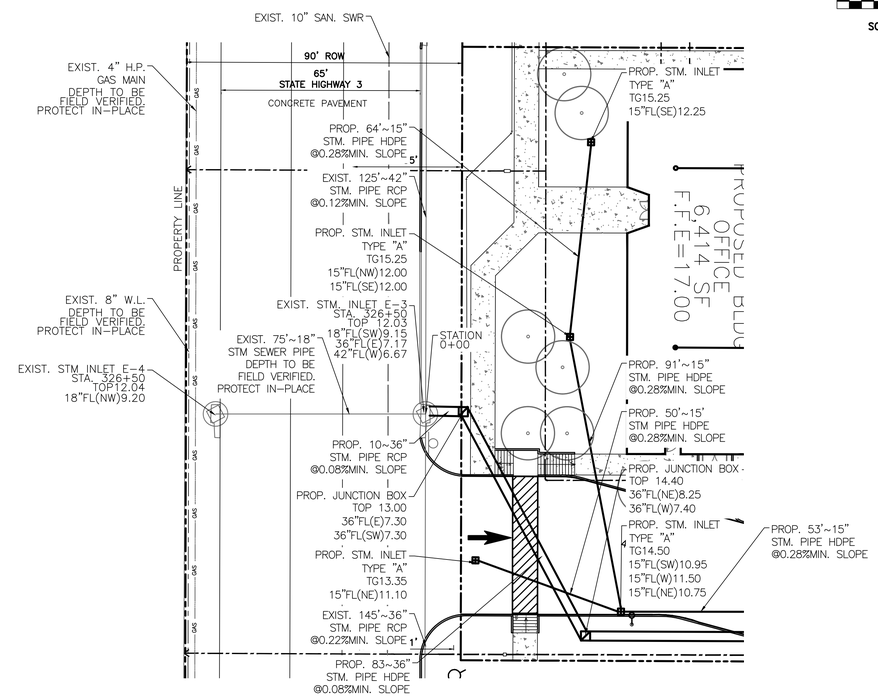
DETENTION POND
CROSS SECTION

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_RBB
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

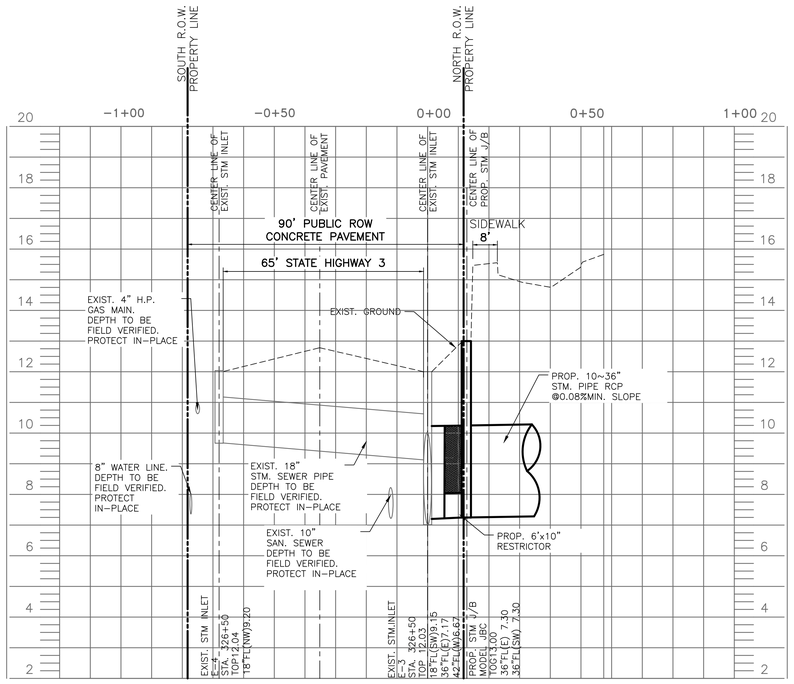
3

C15.0-PH1
SHEET NUMBER

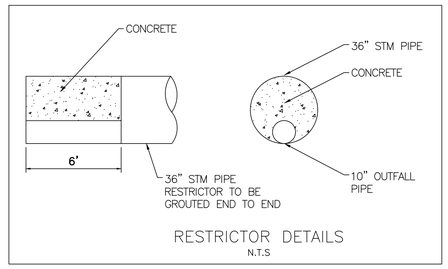
FILE PATH:
USER NAME: File Path
DATE STAMP: 6/26/2008 2:02:08 PM



PROPOSED 36" STORM SEWER PLAN VIEW
GALVESTON COUNTY ROAD & BRIDGE DEPARTAMENT FACILITIES, HIGHWAY 3



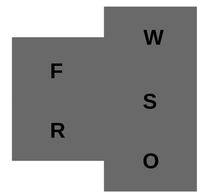
PROPOSED 36" STORM SEWER PROFILE VIEW
GALVESTON COUNTY ROAD & BRIDGE DEPARMENT FACILITIES, HIGHWAY 3

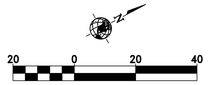


RESTRICTOR DETAILS
N.T.S

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)





SCALE:1"=20' HORIZONTAL
1"=2' VERTICAL

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com
TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities PH1

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

1	ADDENDUM NO. 3	10-07-2020

REVISION DESCRIPTION DATE

PROFESSIONAL SEALS

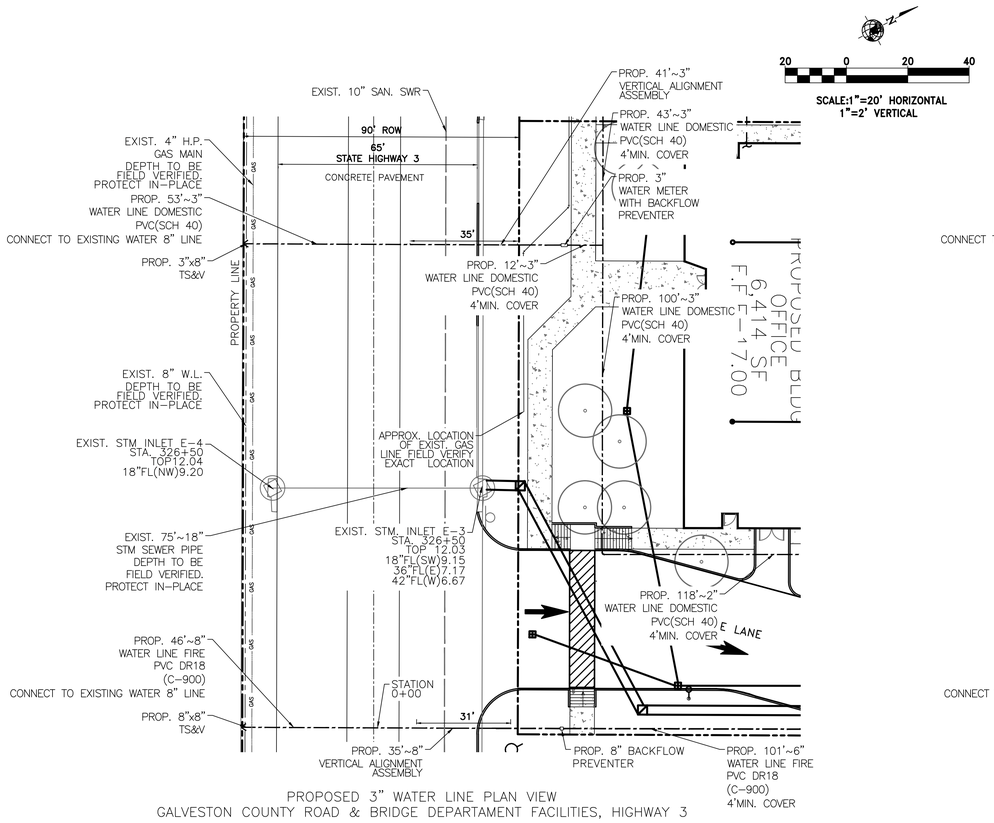
STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

STORM DRAIN PLAN & PROFILE

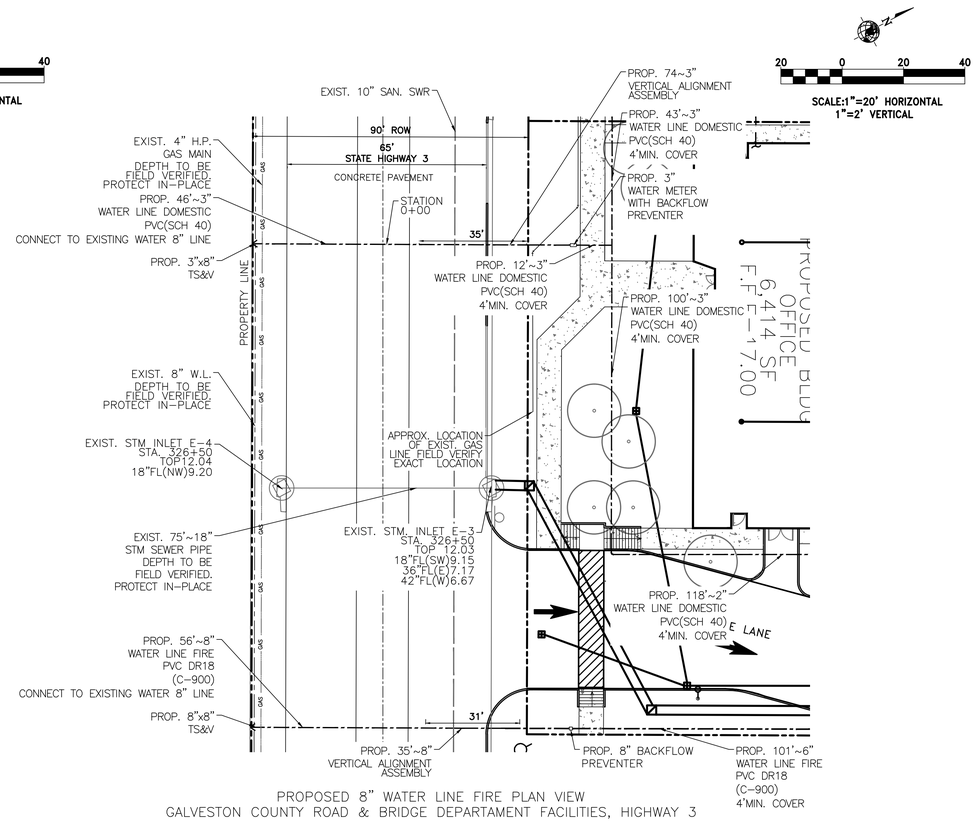
DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

SHEET NUMBER: C16.0-PH1

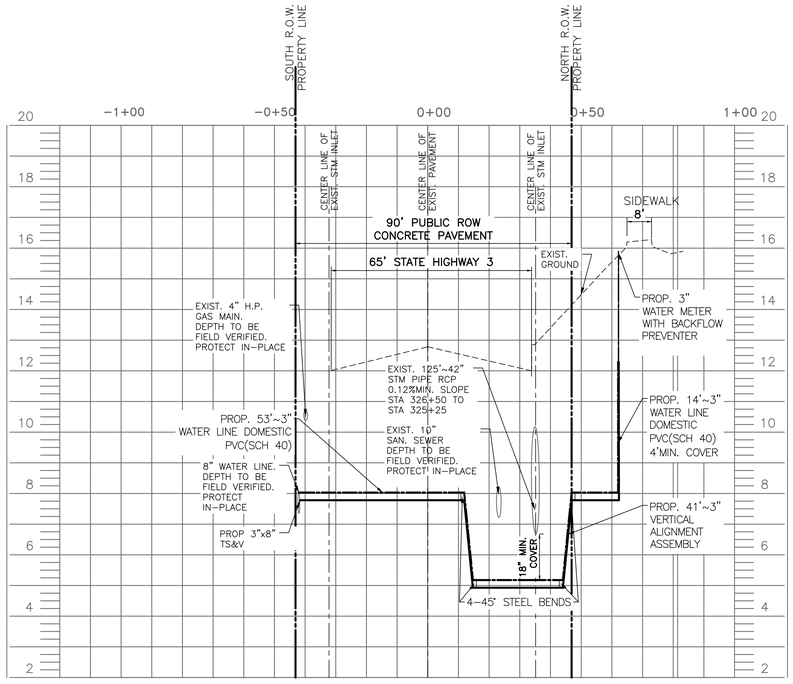
FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM



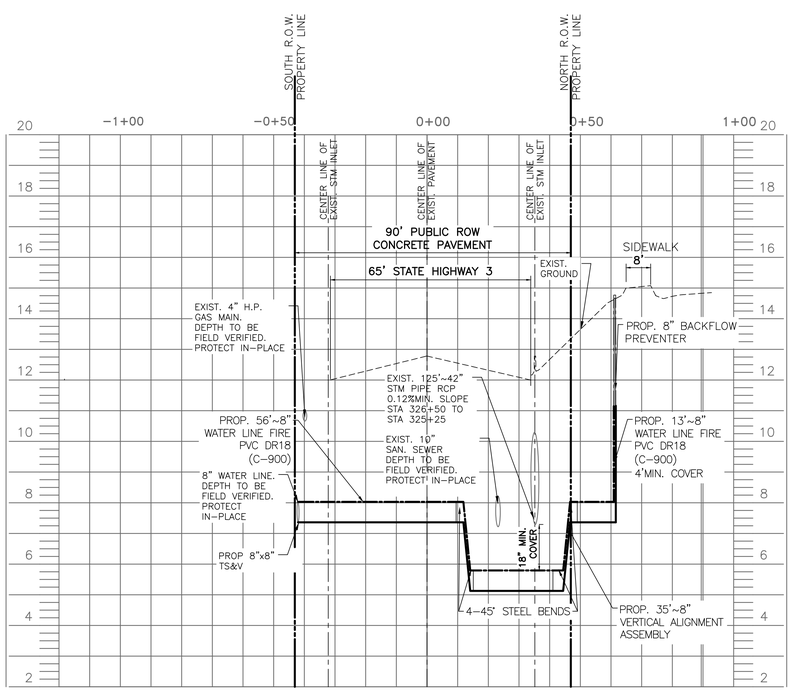
PROPOSED 3" WATER LINE PLAN VIEW
GALVESTON COUNTY ROAD & BRIDGE DEPARTAMENT FACILITIES, HIGHWAY 3



PROPOSED 8" WATER LINE FIRE PLAN VIEW
GALVESTON COUNTY ROAD & BRIDGE DEPARTAMENT FACILITIES, HIGHWAY 3

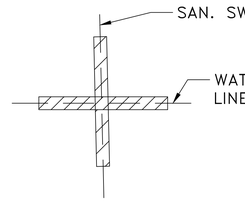


3" WATER LINE PROPOSED PROFILE VIEW
GALVESTON COUNTY ROAD & BRIDGE DEPARTAMENT FACILITIES, HIGHWAY 3



8" WATER LINE FIRE PROPOSED PROFILE VIEW
GALVESTON COUNTY ROAD & BRIDGE DEPARTAMENT FACILITIES, HIGHWAY 3

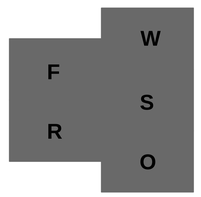
SAN SWR AND WL CROSSING:



WITHIN NINE FEET HORIZONTALLY OF EITHER SIDE OF THE WATERLINE, THE WASTEWATER PIPE AND JOIN SHALL BE CONSTRUCTED WITH PIPE MATERIAL HAVING A MINIMUM PRESSURE RATING OF AT LEAST 150 PSI. AN ABSOLUTE MINIMUM VERTICAL SEPARATION DISTANCE OF TWO FEET SHALL BE PROVIDED. THE WASTEWATER MAIN OR LATERAL SHALL BE LOCATED BELOW THE WATERLINE.

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities PH1

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

1	ADDENDUM NO. 3	10-07-2020

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

WATER LINE PLAN & PROFILE

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

3

SHEET NUMBER: C17.0-PH1

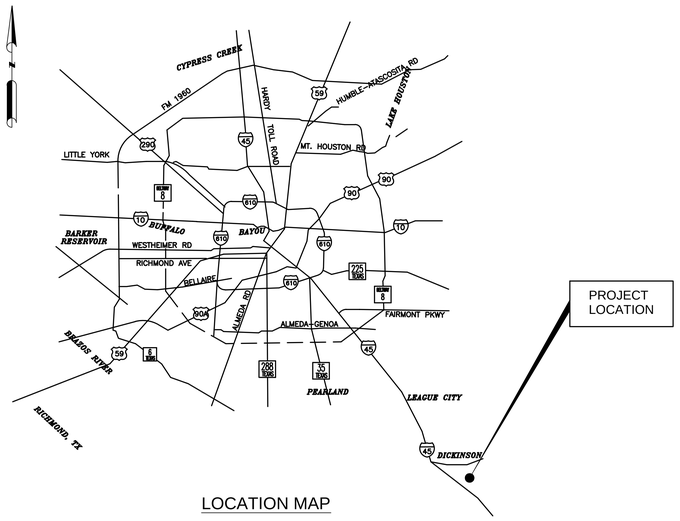
FILE PATH:
USER NAME: File Path
DATE STAMP: 6/26/2008 2:02:08 PM

GALVESTON COUNTY
ROAD & BRIDGE DEPARTMENT FACILITIES - PHASE 2

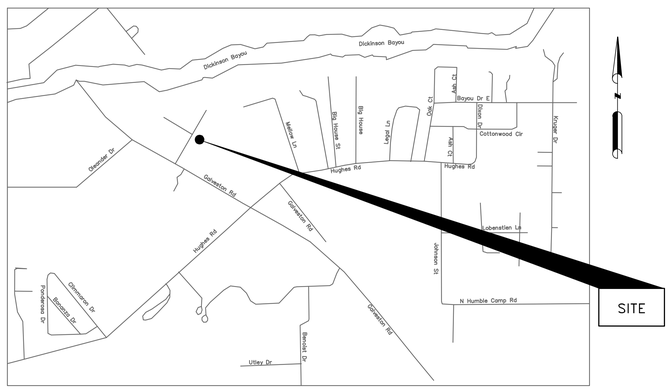
5115 TEXAS HIGHWAY 3
DICKINSON, TX

ISSUE FOR PERMIT

△3 ADDENDUM NO.3 10-07-2020



LOCATION MAP



VICINITY MAP
N.T.S.

KEY MAP: 190-A

CIVIL ENGINEER:

DALLY+ASSOCIATES, INC.
TBPE FIRM REGISTRATION #3426

9800 RICHMOND AVENUE, SUITE 460
HOUSTON, TX 77042
(713) 337 8881
www.dallyassociates.com

Project Manager: Jose Diego Monroy, CFM
Project Engineer: Fred Dally, P.E.

OCTOBER 07, 2020

CIVIL SHEET INDEX

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

NO.	DATE	ADDENDUM NO. 3 Revisions	FD App.
3	10/07/20		

GALVESTON COUNTY
ROAD & BRIDGE
DEPARTMENT FACILITIES PH2
5115 TX-3
DICKINSON, TX 77539

COVER SHEET

TBPE FIRM REGISTRATION #3426

DRAWING SCALE

DESIGNED BY: JDM
CHECKED BY: JDM
DATE:10/07/2020

△3 C1.0-PH2

STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

GENERAL NOTES:

1. According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for Galveston County, Texas, Map No. 48547009S C dated May 2, 1983 This properties lies within Zone "C" of the flood insurance rate map and does not lies within a special flood hazard area.

   This flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. The location of the flood zone was determined by scaling from said FEMA map. The actual location, as determined by elevation contours, may differ. Intertek Surveying & Services assumes no liability as to the accuracy of the location of the flood zone limits. This flood statement shall not create liability on the part of KM Surveying, LLC.

2. This survey has been prepared for the sole purpose of the transaction described in the above mentioned Commitment for Title Insurance and the parties listed thereon. This survey is not to be used for any subsequent transactions.

3. This survey does not determine the location of wetlands, fault lines, toxic waste, cemeteries, landfills, dumps or any other environmental issues.

4. Intertek Surveying & Services has not been provided with construction plans showing the location of underground utilities. Underground utilities may exist which are not shown hereon.

5. Readily visible improvements/utilities were located with this survey, no subsurface probing, excavation or exploration was performed Intertek Surveying & Services.

6. This exhibit has been prepared without benefits of current title report. There may be easements, setbacks, and other matters of record not shown hereon, the surveyor has not abstract the property.

7. Reference is made to a Survey of a 3.193-acre (139,093 sq. ft.) Tract situated in the Alexander Farmer League, A-11 and The W.K Wilson Survey, A-208 Galveston County, Texas. dated 12/12/2018. Prepared by Weisser Engineering Co. Job. No. GD404 and in the field book 3510.

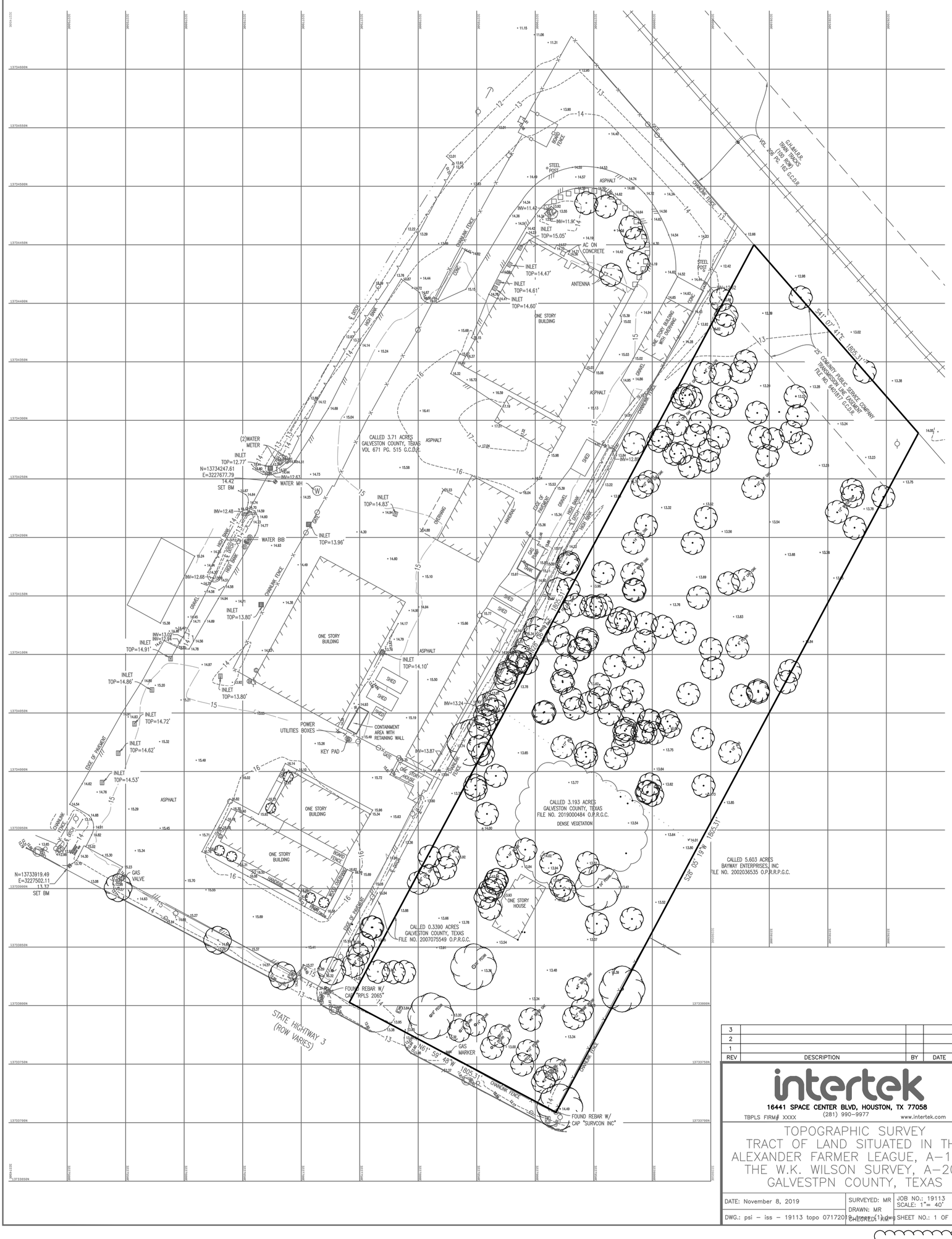
LEGEND:
- BOLLARD
- BENCHMARK
- INLET
- SMALL INLET
- GAS MARKER
- GAS METER
- GAS VALVE
- GUY/ANCHOR
- STORM MANHOLE
- SIGN
- POWER POLE
- WATER MH
- WATER METER
- DECIDUOUS TREE

0 20 40 80

PROJECT SITE

AP.png

Vicinity Map
N.T.S.



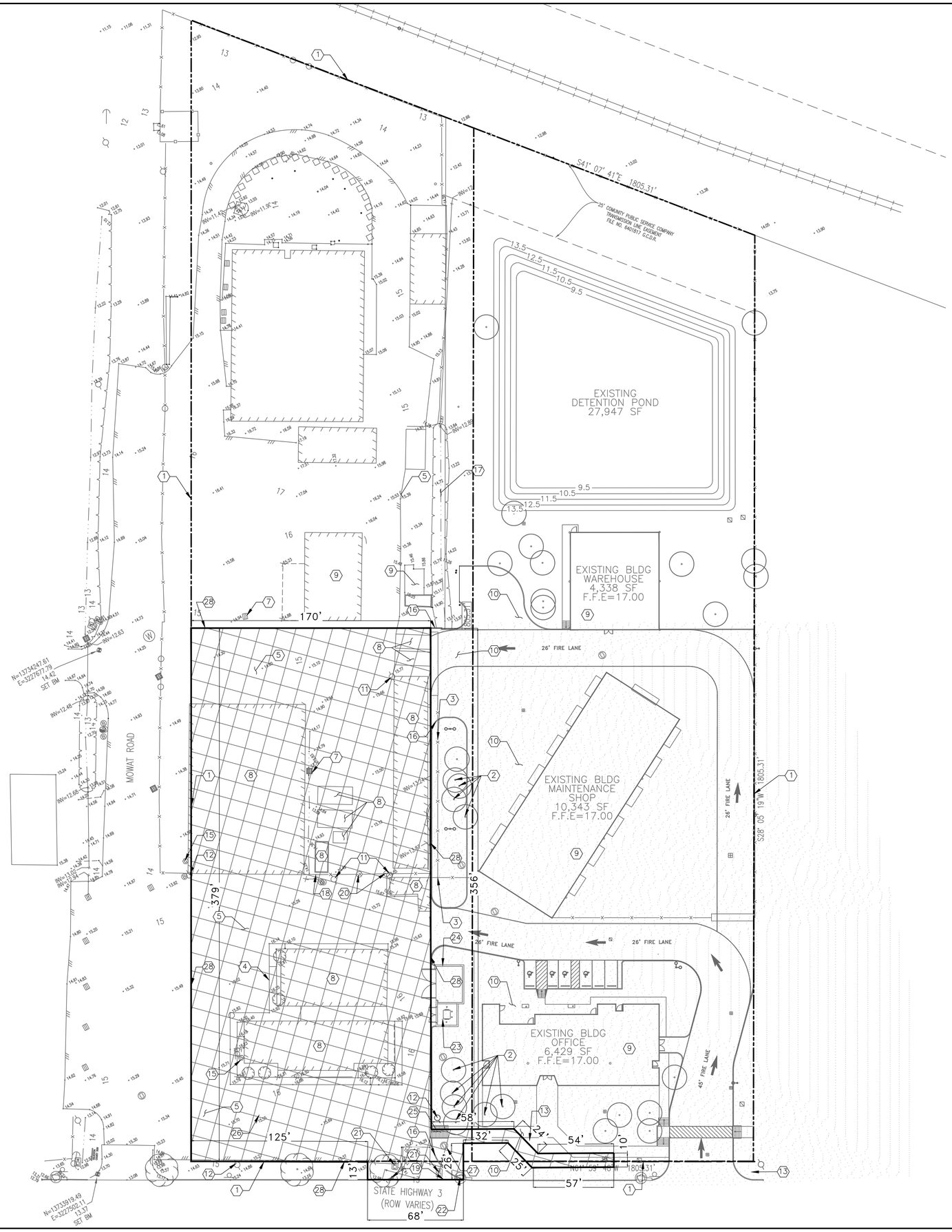
REV	DESCRIPTION	BY	DATE
3			
2			
1			

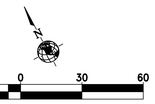
intertek
16441 SPACE CENTER BLVD, HOUSTON, TX 77058
TBPLS FIRM# XXXX (281) 990-9977 www.intertek.com

TOPOGRAPHIC SURVEY
TRACT OF LAND SITUATED IN THE ALEXANDER FARMER LEAGUE, A-11 & THE W.K. WILSON SURVEY, A-205 GALVESTPN COUNTY, TEXAS

DATE: November 8, 2019	SURVEYED: MR DRAWN: MR CHECKED: KM	JOB NO.: 19113 SCALE: 1"= 40'
DWG.: psi – iss – 19113 topo 07172019		SHEET NO.: 1 OF 1

C2.0-PH2





DEMOLITION NOTES TO CONTRACTOR

1. ALL ITEMS DESIGNATED TO BE REMOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
2. THE CONTRACTOR AND OWNER SHALL COORDINATE WITH CENTERPOINT FOR TERMINATION OF POWER AND GAS SERVICES TO THE SITE OR NEW SERVICES. THIS WORK WILL BE PROVIDED BY CENTERPOINT AND SHALL BE SCHEDULE AS ONE OF THE FIRST ITEMS OF BUSINESS.
3. THE CONTRACTOR SHALL BE PROVIDE AN APPROVED TRAFFIC CONTROL PLAN TO PERFORM ANY WORK PROPER SIGNAGE.
4. WHEN EXISTING SIDEWALK IS CLOSED FOR CONSTRUCTION, CONTRACTOR SHALL BARRICADE THAT AREA AND PROVIDE SAFE ALTERNATE PATH FOR PEDESTRIAN WITH PROPER SIGNAGE.
5. ALL TRAFFIC SIGNAGE WITHIN THE ROW SHALL BE PROTECTED INPLACE AT ALL TIMES. ANY DAMAGE TO THEN SHALL BE REPAIRED IMMEDIATELY. DURING THE CONSTRUCTION, SAFE OPERATION OF PEDESTRIAN OR VEHICULAR TRAFFIC, CONTRACTOR SHALL PROVIDE A CERTIFIED FLAGGER OR PEACE OFFICER UNTIL THAT SIGN IS RESTORED TO EXISTING CONDITION.
6. CONTRACTOR SHALL REPAIR ANY ITEMS DAMAGE DURING CONSTRUCTION TO ITS EXISTING CONDITION.
7. PRIOR TO ANY DEMOLITION WORK, THE CONTRACTOR SHALL LOCATED AS WELL CAPPED. ALL UTILITIES THAT ARE SHOWN SHALL BE LOCATED AS WELL AND CAPPED. ALL UTILITIES NOT SHOW SHALL BE LOCATED AS WELL CAPPED. UTILITIES THAT ARE SHOWN ON PLANS ARE APPROXIMATE LOCATION ONLY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE ON SITE DURING ALL CONSTRUCTION ACTIVITIES.
9. THE CONTRACTOR SHALL ENTER & EXIT THE SITE THROUGH EXISTING DRIVEWAY.
10. CAUTION. THERE ARE OVERHEAD POWERLINES WITH IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.
11. THE DEMOLITION AND REMAIN OF THE TREES WILL BE UNDER THE INDICATIONS OF THE PLANS OF LANDSCAPE. PLEASE CONFIRM WITH THE CITY.

DEMOLITION KEY NOTES

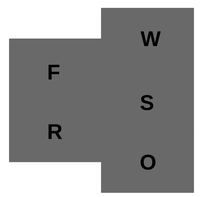
1. PROPERTY LINE.
2. EXISTING TREE TO REMAIN. PROTECT IN–PLACE.
3. EXISTING CHAINLINK FENCE TO REMAIIN. PROTECT IN–PLACE
4. EXISTING CONCRETE PAVEMENT TO BE REMOVED.
5. EXISTING ASPHALT PAVEMENT TO BE REMOVED.
6. EXISTING SANITAY SEWER MANHOLE TO REMAIN. PROTECT IN–PLACE.
7. EXISTING STORM DRAIN INLET TO REMAIN. PROTECT IN–PLACE.
8. EXISTING BUILDING TO BE REMOVED.
9. EXISTING BUILDING TO REMAIN.
10. EXISTING CONCRETE PAVEMENT TO REMAIN. PROTECT IN–PLACE.
11. EXISTING POWER POLE TO BE REMOVED.
12. EXISTING POWER POLE TO REMAIN. PROTECT IN–PLACE.
13. EXISTING WATER METER TO REMAIN OR TO BE REMOVED. PROTECT IN–PLACE. IN ACCORDING WITH OWNER/CITY FOR FURTHER INSTRUCTION.
14. EXISTING GAS MARKER TO REMAIN. PROTECT IN–PLACE.
15. EXISTING GAS METER TO REMAIN. PROTECT IN–PLACE
16. EXISTING CURB TO REMAIN. PROTECT IN–PLACE.
17. EXISTING DITCH TO BE REMOVED.
18. EXISTING CHAINLINK FENCE TO BE REMOVED.
19. EXISTING CURB TO BE REMOVED.
20. EXISTING GATE TO B REMOVED
21. EXISTING WATER METER TO BE RELOCATED.
22. EXISTING INLET BB TO REMAIN. PROTECT IN–PLACE.
23. EXISTING DUMPSTER TO REMAIN. PROTECT IN–PLACE.
24. EXISTING GENERATOR TO REMAIN. PROTECT IN–PLACE.
25. EXISTING ADA RAMP TO REMAIN. PROTECT IN–PLACE.
26. EXISTING SANITARY SEWER LINE TO REMAIN. PROTECT IN–PLACE
27. EXISTING MANHOLE SANITARY SEWER TO REMAIN. PROTECT IN–PLACE.
28. LIMITS OF DEMOLITION.

DEMOLITION HATCH LEGEND

LIMITS OF DEMOLITION.

ONE– CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223–4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1–800–545–6005

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH2
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
2	ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS

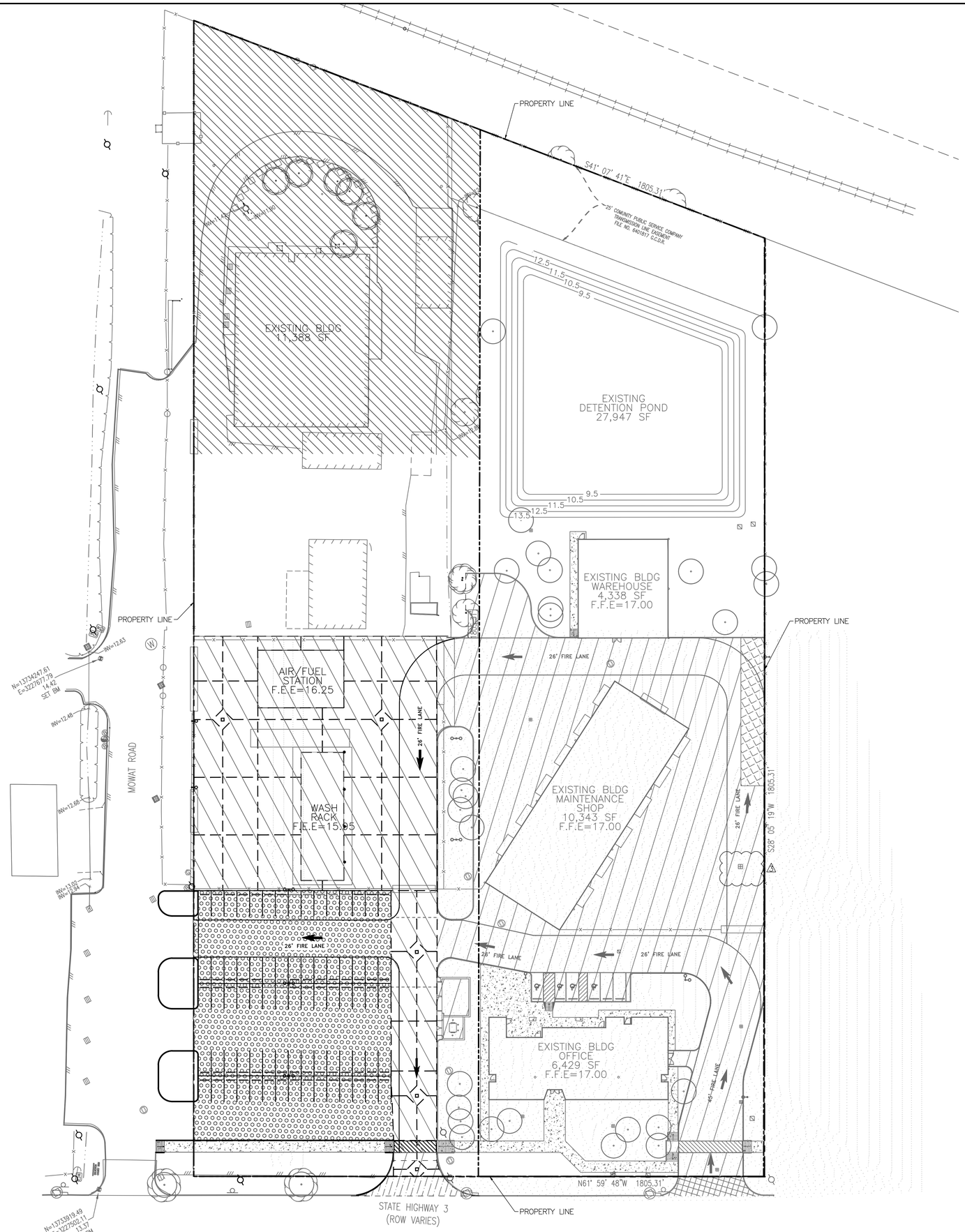
STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

DEMOLITION PLAN

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

C3.0-PH2
SHEET NUMBER

FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM



30 0 30 60

SCALE: 1"=30'

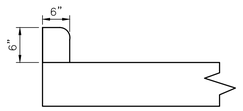
HATCH LEGEND:

- PROPOSED 6" THICK CONCRETE PAVING APPROX: 30,938 SQFT RE: C-9.0 PAVEMENT DETAILS
- PROPOSED 4.5" THICK CONCRETE FOR SIDEWALK APPROX: 1,335 SQFT RE: C-9.0 PAVEMENT DETAILS
- PROPOSED 6" THICK CONCRETE FOR DRIVEWAY APPROX: 737 SQFT RE: C-9.0 PAVEMENT DETAILS
- 6" TALL CURB REF. SECTION
- PROPOSED 6" THICK CONCRETE FOR DRIVEWAY APPROX: 737 SQFT RE: C-9.0 PAVEMENT DETAILS
- PROPOSED TRUE-GRID PRO PLUS APPROX: 23,841 SQFT
- EXISTING ASPHALT PAVEMENT APPROX: 18,621 SQFT
- EXISTING PAVEMENT APPROX: 46,728 SQFT
- EXISTING 4.5" THICK CONCRETE FOR SIDEWALK APPROX: 5,788 SQFT RE: C-9.0 PAVEMENT DETAILS
- EXSTING 6" THICK CONCRETE FOR DRIVEWAY APPROX: 707 SQFT RE: C-9.0 PAVEMENT DETAILS
- 7" THICK CONCRETE PAVING APPROX: 1,699 SQFT RE: C-9.0 PAVEMENT DETAILS

LEGEND:

- PROPOSED SAWCUTTING JOINT
- PROPOSED EXPANSION JOINT

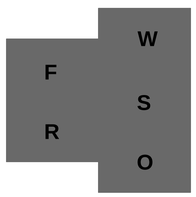
*NOTE: SEE PAVING DETAILS FOR JOINT SECTIONS



6" CONCRETE CURB APPROX: 535 LF

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH2

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

	REVISION DESCRIPTION	DATE
2	ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS

STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

PAVING PLAN

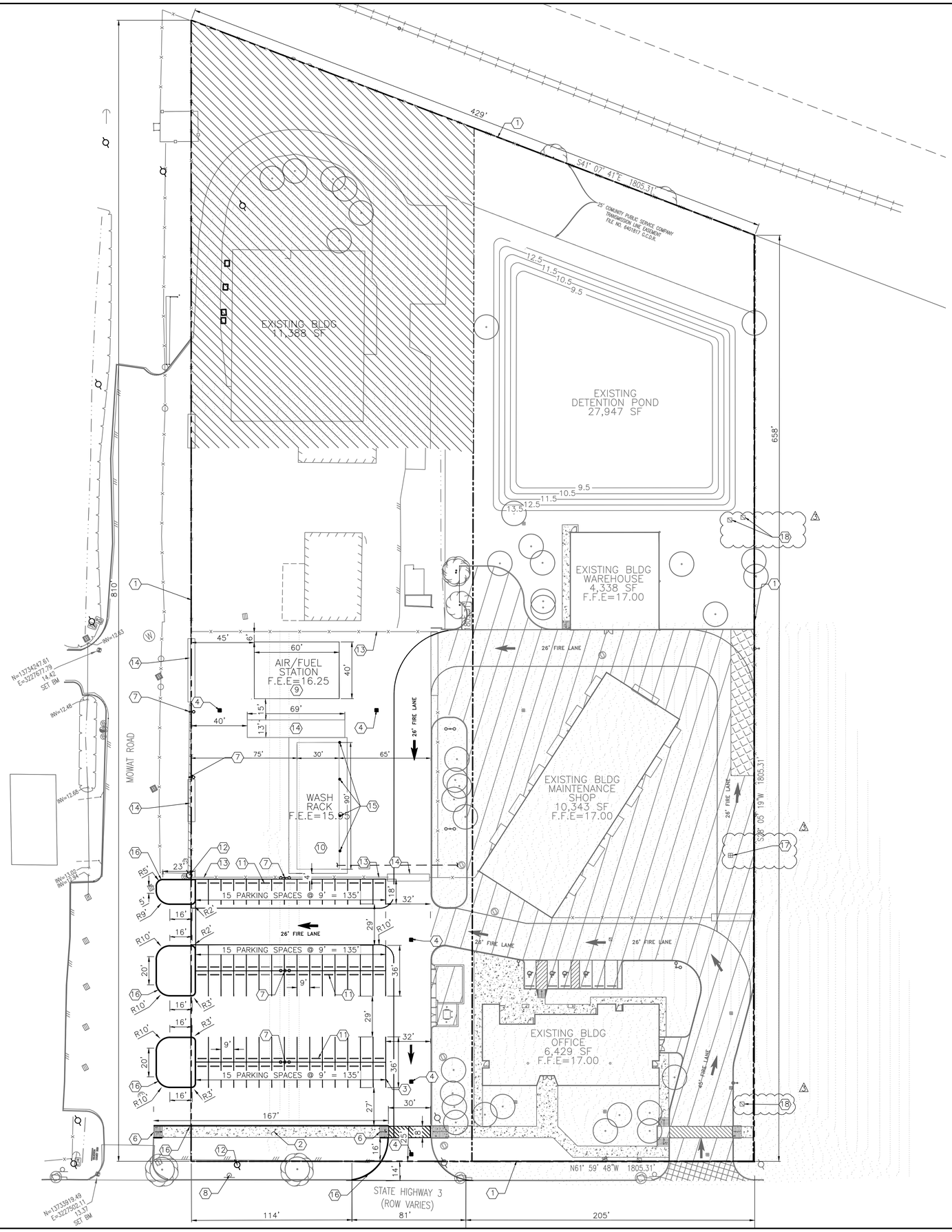
DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_RBB
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

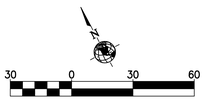
2

C4.0-PH2

SHEET NUMBER

FILE PATH:
USER NAME: File Path
DATE/TIME: 6/26/2008 2:02:08 PM





SITE LAYOUT NOTES

1. THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA PROVIDED BY OTHERS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION THAT ARE TO REMAIN IN SERVICE. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
2. ALL DIMENSIONS ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO FACE OF BUILDING. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
4. REFER TO ARCHITECTURAL PLANS FOR ALL STAIRS, HANDICAPPED RAMP AND RETAINING WALL DETAILS.
5. REFER TO LANDSCAPE ARCHITECT PLANS FOR DETAILS AND DIMENSIONS OF LANDSCAPE AND HARDSCAPE AREAS.

LAYOUT KEY NOTES

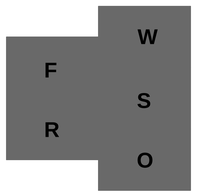
1. PROPERTY LINE.
2. PROPOSED 5" THICK CONCRETE SIDEWALK PER PAVEMENT DETAILS.
3. PROPOSED 4" YELLOW STRIPING PER PAVEMENT DETAILS TYP.
4. PROPOSED STORM DRAIN INLET TYPE "A" PER STORM DRAIN DETAILS.
5. PROPOSED JUCTION BOX PER STORM DRAIN DETAILS.
6. PROPOSED ADA RAMP PER PAVEMENT DETAILS.
7. PROPOSED LIGHT POLE; REFER TO MEP DRAWINGS FOR LAYOUT AND SPECIFICATIONS.
8. EXISTING TRAFFIC SIGN TO REMAIN. PROTECT IN-PLACE.
9. PROPOSED AIR/FUEL STATION.
10. PROPOSED WASH RACK.
11. PROPOSED WHEEL STOP.
12. EXISTING POWER POLE TO REMAIN. PROTECT IN-PLACE.
13. PROPOSED CHAIN - LINK FENCE
14. PROPOSED GATE BY OTHERS.
15. PROPOSED 8" SQUARE PREFINISHED METAL DOWNSPOUT. REFER TO ARQUITECTURAL DRAWINGS.
16. PROPOSED 6" CONCRETE CURB PER PAVEMENT DETAILS.
17. EXISTING STORM DRAIN INLET TYPE "A" PER STORM DRAIN DETAILS.
18. EXISTING JUCTION BOX PER STORM DRAIN DETAILS.

HATCH LEGEND

- CONSTRUCT 5" CONCRETE SIDEWALK ON PRIVATE AND PUBLIC PROPERTY OVER COMPACTED SUB-GRADE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS
- PROPOSED BUILDING LAYOUT
- AREA NOT IN SCOPE

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH2
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

	REVISION	DESCRIPTION	DATE
1	ADDENDUM NO. 3		10-07-2020

PROFESSIONAL SEALS

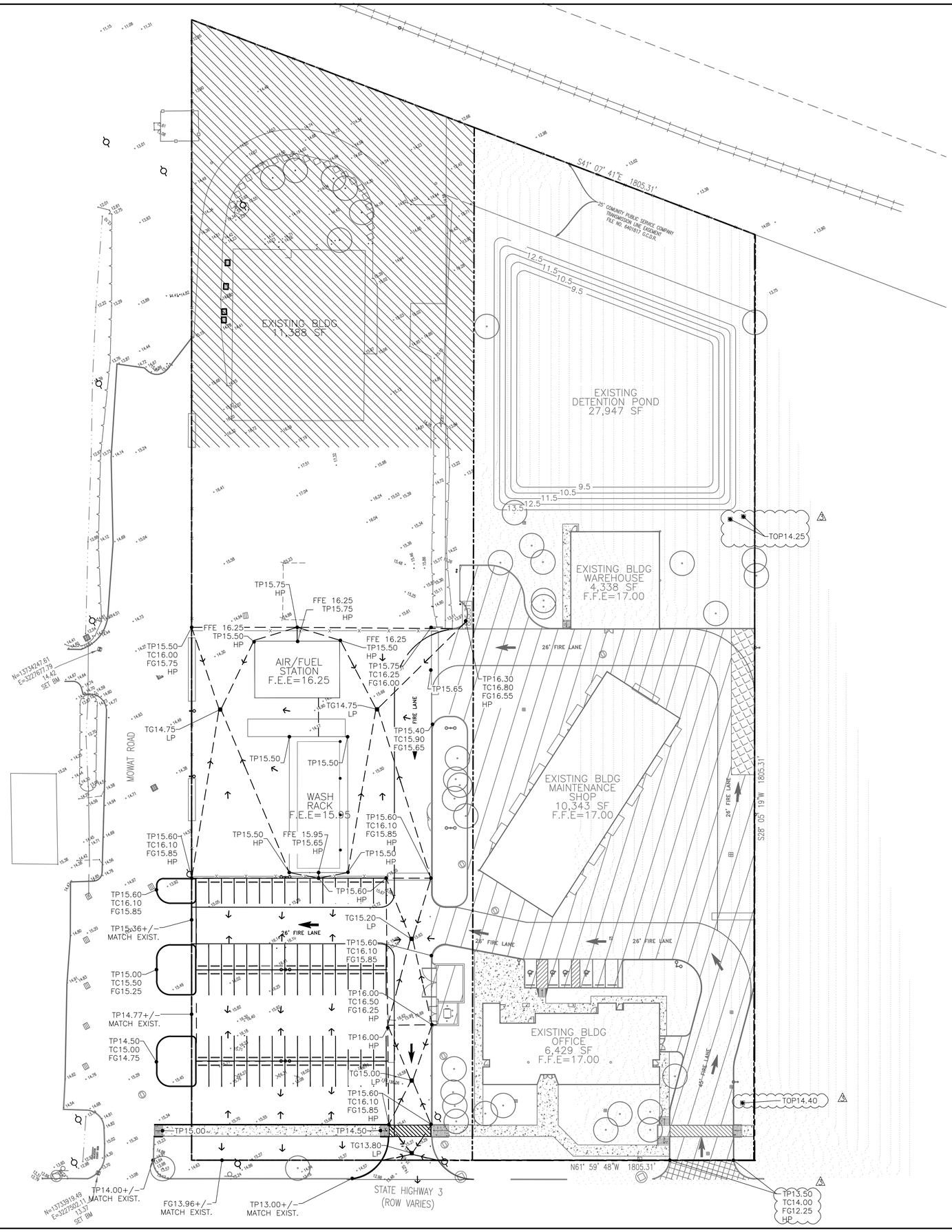
STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

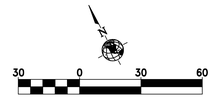
LAYOUT PLAN

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_R&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

1 C5.0-PH2
SHEET NUMBER

FILE PATH
USER NAME File Path
DATE STAMP 6/26/2008 2:02:08 PM





SCALE: 1"=30'

GRADING PLAN NOTES

1. REFER TO GEOTECHNICAL REPORT FOR ALL COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ECT. WITHIN THE AREA OF CONSTRUCTION THAT ARE TO REMAIN. THEY MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PAVING AND GRADING. AT NO ADDITIONAL COST TO THE OWNER.
3.
4. ALL INLETS AND MANHOLES SHALL MEET THE REQUIREMENTS OF THE LOCAL GOVERNING AGENCY.
5. SIDEWALKS SHALL HAVE A SLOPE NO GRATER THAN 5% AND A CROSS SLOPE NOT GRATER THAN 2%, UNLESS OTHERWISE.

ABBREVIATIONS

TW TOP OF WALL

TP TOP OF PAVEMENT ELEVATION

TC TOP OF CURB ELEVATION

TG TOP OF GRATE ELEVATION (STORM DRAIN INLET)

FG FINISHED GRADE ELEVATION

FFE FINISHED FLOOR ELEVATION

BFE BASE FLOOD ELEVATION

FL FLOWLINE ELEVATION

HATCH LEGEND

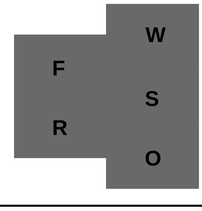
CONSTRUCT 5" CONCRETE SIDEWALK OVER COMPACTED SUB-GRADE PER GEOTECHNICAL. ENGINEER'S RECOMMENDATIONS

PROPOSED BUILDING LAYOUT.

AREA NOT IN SCOPE

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH2
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
2	ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS

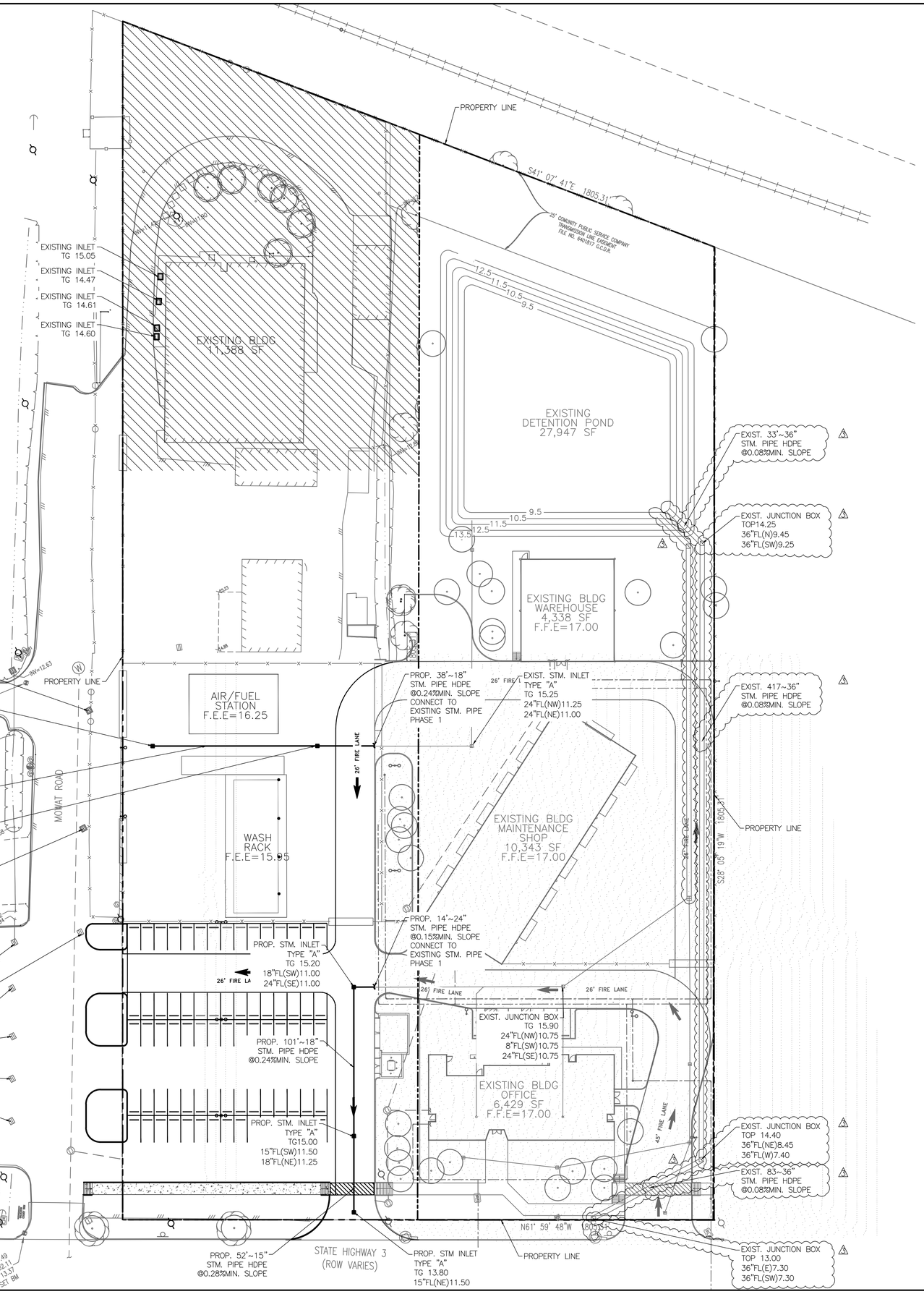
STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

GRADING PLAN

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

2 C6.0-PH2
SHEET NUMBER

FILE PATH
FILE NAME: File Path
DATE/STAMP: 6/26/2008 2:02:08 PM



30 0 30 60

SCALE: 1"=30'

UTILITY PLAN NOTES

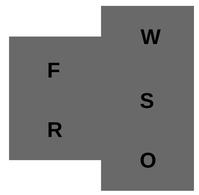
1. REFER TO GEOTECHNICAL REPORT FOR ALL COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ECT. WITHIN THE AREA OF CONSTRUCTION THAT ARE TO REMAIN. THEY MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PAVING AND GRADING. AT NO ADDITIONAL COST TO THE OWNER.
3. ALL INLETS AND MANHOLES SHALL MEET THE REQUIREMENTS OF THE LOCAL GOVERNING AGENCY.
4. ALL ROOF DRAINS ARE 4"TYP. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
5. SIDEWALKS SHALL HAVE A SLOPE NO GRATER THAN 5% AND A CROSS SLOPE NOT GRATER THAN 2%, UNLESS OTHERWISE NOTED.

HATCH LEGEND

- CONSTRUCT 5" CONCRETE SIDEWALK OVER COMPACTED SUB-GRADE PER GEOTECHNICAL. ENGINEER'S RECOMMENDATIONS
- PROPOSED BUILDING LAYOUT.
- AREA NOT IN SCOPE

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH2
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

	REVISION	DESCRIPTION	DATE
1	ADDENDUM NO. 3		10-07-2020

PROFESSIONAL SEALS

STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

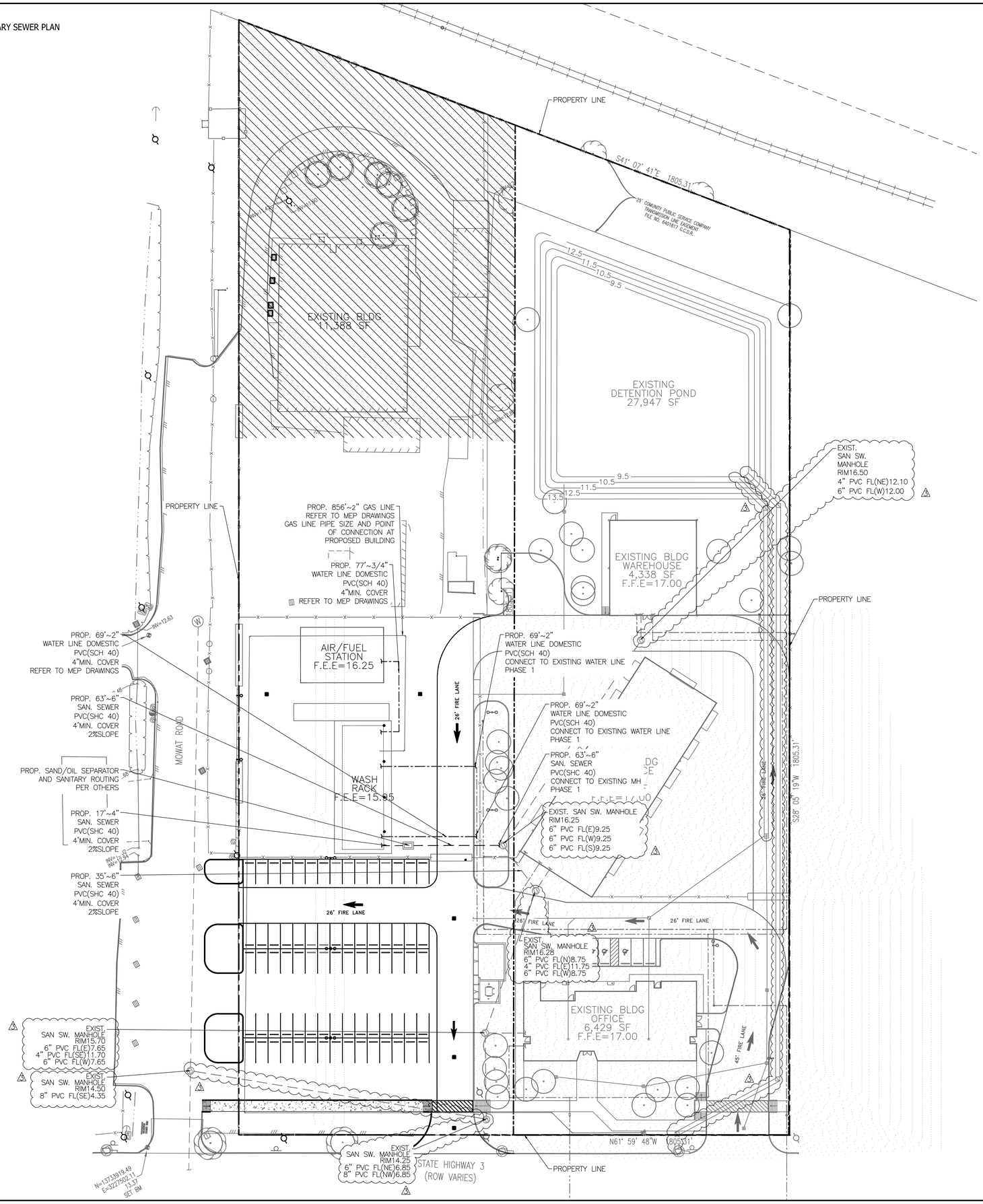
UTILITY PLAN

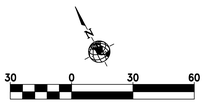
DRAWN BY JDM | CHECKED BY JDM
PROJECT NUMBER 418198 | PROJECT ABBREVIATION GC_R&B
ORIGINAL ISSUE ISSUE FOR PERMIT | DATE 07 OCT 2020

C7.0-PH2
SHEET NUMBER

FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM

SANITARY SEWER PLAN





UTILITY PLAN NOTES

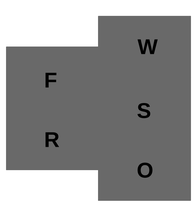
1. REFER TO GEOTECHNICAL REPORT FOR ALL COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ECT. WITHIN THE AREA OF CONSTRUCTION THAT ARE TO REMAIN. THEY MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PAVING AND GRADING. AT NO ADDITIONAL COST TO THE OWNER.
3. ALL INLETS AND MANHOLES SHALL MEET THE REQUIREMENTS OF THE LOCAL GOVERNING AGENCY.
4. ALL ROOF DRAINS ARE 4"TYP. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
5. SIDEWALKS SHALL HAVE A SLOPE NO GRATER THAN 5% AND A CROSS SLOPE NOT GRATER THAN 2%, UNLESS OTHERWISE NOTED.

HATCH LEGEND

- CONSTRUCT 5" CONCRETE SIDEWALK OVER COMPACTED SUB-GRADE PER GEOTECHNICAL. ENGINEER'S RECOMMENDATIONS
- PROPOSED BUILDING LAYOUT.
- AREA NOT IN SCOPE

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH2
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

	REVISION	DESCRIPTION	DATE
2	ADDENDUM NO. 3		10-07-2020

PROFESSIONAL SEALS

STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

UTILITY PLAN

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_R&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

2 C7.1-PH2
SHEET NUMBER

FILE PATH
FILE NAME: File Path
DATE STAMP: 6/26/2008 2:02:08 PM

A. GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SECURITY TO PROTECT HIS OWN PROPERTY, EQUIPMENT AND WORK IN PROGRESS.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING OF STREETS CAUSED BY ASSOCIATED CONSTRUCTION AT CLOSE OF EACH WORK DAY.
4. PAVED SURFACES SHALL BE PROTECTED FROM DAMAGE BY TRACKED EQUIPMENT.
5. CONTRACTOR WILL PAY ALL COST TO REPLACE IRON RODS OR OTHER LAND BOUNDARY MARKERS DISTURBED DURING CONSTRUCTION. A REGISTERED LAND SURVEYOR WILL BE USED TO RESET DISTURBED BOUNDARY MARKERS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AN UPDATE REDLINED "RECORD" SET OF CONSTRUCTION DRAWINGS ON SITE FOR INSPECTION BY THE ENGINEER.
7. CONTRACTOR SHALL PROVIDE ORANGE FENCING OR BARRICADES TO PROTECT PEDESTRIANS FROM ENTERING WORK AREAS.
8. CONTRACTOR MUST PROVIDE FENCING AROUND OPEN EXCAVATIONS AREA AT ALL TIMES.
9. REFER TO THE SWPPP GENERAL NOTES FOR PROPER MEASURES AND CONTROLS.

B. PAVEMENT

1. EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGE OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO ORIGINAL CONDITION OR BETTER, IN ACCORDANCE WITH THE GOVERNMENT AGENCY HAVING JURISDICTION.
2. THE SUBGRADE SHALL BE BROUGHT TO THE LINES AND GRADES AS SHOWN ON THE DRAWINGS.
3. WHENEVER UNSUITABLE MATERIAL IS ENCOUNTERED AND CANNOT BE HANDLED BY THE EXCAVATION OR EMBANKMENT REQUIREMENTS, THEN THE UNSUITABLE MATERIAL SHALL BE EXCAVATED TO A DEPTH DEEMED SUFFICIENT BY THE ENGINEER AND THE EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF THE JOB SITE. THE EXCAVATED AREA SHALL BE FILLED WITH SELECT FILL PER STANDARDS OF THE GOVERNMENT AGENCY HAVING JURISDICTION.
4. SURPLUS EXCAVATED EARTHEN MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND DISPOSED OF OFF-SITE. INCLUDE COST OF REMOVAL AND DISPOSAL IN OTHER ITEMS OF WHICH THIS WORK IS A COMPONENT PART. NO SEPARATE PAY. THE MATERIAL MUST BE DISPOSED OF IN A SAFE AND LEGAL MANNER.
5. EXISTING WATER VALVES AND MANHOLES SHALL BE ADJUSTED, AS NECESSARY TO MATCH TOP OF PROPOSED PAVEMENT ELEVATION.

C. SANITARY SEWER, STORM SEWER & DRAINAGE

1. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
2. ANY CURB DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER OR OWNING AUTHORITY.
3. CONTRACTOR'S ACTIVITIES SHALL HAVE NO EFFECT TO FLOWS TO AND FROM OFF SITE AREAS EXISTING SHEET DRAINAGE SHALL NOT BE IMPEDED BY PROPOSED CONSTRUCTION.
4. WHERE MANHOLES ARE LOCATED WITHIN PAVED AREAS, CONTRACTOR SHALL SET RIM ELEVATIONS TO MATCH FINISHED GRADE ELEVATIONS. OUTSIDE OF PAVED AREAS, SET MANHOLE RIMS 3 INCHES (MINIMUM) TO 6 INCHES (MAXIMUM) ABOVE FINISHED GRADE. ADD SLOPE FILL AROUND MANHOLES, SLOPED AWAY AND DOWN FROM MANHOLE RING.
5. NO DUMPING OF EXCAVATION MATERIALS WILL BE ALLOWED ON PAVED AREAS. CONTRACTOR MUST DETERMINE A LOCATION TO TEMPORARILY STOCKPILE STORM SEWER EXCAVATION TO BE USED AS BACK FILL, AS APPROVED.
6. THE CONTRACTOR SHALL USE HDPE PLASTIC PIPE OR RCP PIPE AS SHOWN ON PLANS.

D. STANDARD NOTES FOR CONSTRUCTION DRAWINGS:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING BACKSLOPE DRAINAGE SYSTEMS.
2. ALL DISTURBED AREAS WITHIN THE SUBDIVISION, EXCEPT THE CHANNEL BOTTOM, SHALL BE FERTILIZED SEEDED.
3. ALL BACKFILL SHALL BE STRICTLY ACCORDING TO DETAILS, SPECIFICATION OR GEOTECHNICAL RECOMMENDATIONS, AS APPROVED BY ENGINEER.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING CHANNEL FLOWLINE TO DESIGN ELEVATIONS AS SHOWN ON PLANS AND DOWNSTREAM AS NECESSARY TO ENSURE NO WATER IN STORM SEWER DURING "DRY" CONDITIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOW IN CHANNEL DURING CONSTRUCTION AND RESTORING CHANNEL TO ORIGINAL CONDITION.

E. UTILITIES

1. CENTERPOINT ENERGY

WARNING: OVERHEAD ELECTRICAL FACILITIES

A. OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATED THEM PRIOR TO BEGINING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANCE FOR LINES TO BE TURNED OF OR REMOVED, CALL CENTERPOINT ENERGY, AT (713) 207-7777.

CAUTION: UNDERGROUND GAS FACILITIES

A. LOCATIONS OF CENTERPOINT ENERGY MAIN LINES, (TO INCLUDE GAS TRANSMISSION, AND/OR INDUSTRIAL GAS SUPPLY CORP. WHERE APPLICABLE), ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 OR 1-800-669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

B. WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713)-967-8037 FROM 7:00 AM TO 4:30 PM FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.

C. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.

D. WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.

E. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

F. OTHER:

1. LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON PLANS IS NOT GUARANTEED TO BE COMPLETE OR DEFINITE. THE APPROXIMATE LOCATIONS OF KNOWN EXISTING UTILITIES ARE SHOWN. CONTRACTOR SHALL DETERMINE THE EXACT SIZE AND HORIZONTAL AND VERTICAL LOCATIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY ALL OF THE PROPER GOVERNING AUTHORITIES, (STATE, COUNTY OR CITY) AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
2. ANY PERMANENT RELOCATION OF AN EXISTING UTILITY NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO RELOCATION AND SHALL CONFORM TO THE APPLICABLE STANDARDS OF GOVERNING AUTHORITIES.
3. CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND FACILITIES DURING INSTALLATION OF PROPOSED WORK.
4. IN THE EVENT THAT ANY CONTAMINATED MATERIALS OF SUSPECT CONTAMINATED MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CEASE OPERATIONS IN THAT AREA AND IMMEDIATELY NOTIFY THE ENGINEER.
5. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARDS OF THE GOVERNMENTAL AGENCY HAVING JURISDICTION.
6. ALL PAVEMENT SHALL CONFORM WITH THE STANDARDS OF THE GOVERNMENTAL AGENCY HAVING JURISDICTION.
7. ALL STORM SEWERS SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (RCP) ASTM C-76, CLASS III, EXCEPT FOR ALUMINIZED STEEL PIPE FOR OUTFALLS. (SEE DETAILS FOR BEDDING).
8. STEEL METAL PIPE SHALL BE ALUMINIZED STEEL AASHTO M274 TYPE 2 MIN. 0.052 THICKNESS.
9. ALL GRAVITY SANITARY SEWERS SHALL BE CONSTRUCTED OF PVC PIPE (ASTM D-3034, SDR 26), UNLESS OTHERWISE NOTED ON THE DRAWINGS.
10. ALL FORCE MAIN SANITARY SEWERS SHALL BE CONSTRUCTED OF PVC PIPE (ASTM D-3034, SDR 26), UNLESS OTHERWISE NOTED ON THE DRAWINGS.
11. ALL SANITARY SEWERS AND WATER MAINS SHALL HAVE SIX (6) INCHES OF SAND BACKFILL BOTH UNDER AND OVER PIPE WITH DETECTOR TAPE (METALLIC) INSTALLED 1.5' BELOW FINISH GRADE.
12. BACKFILL WITH CEMENT STABILIZED SAND WHEN SANITARY SEWER CROSSES OVER STORM SEWER (SPACE BETWEEN STORM AND SANITARY SEWERS).
13. ALL SEWERS UNDER OR WITHIN ONE (1) FOOT OF PROPOSED OR FUTURE PAVEMENT SHALL BE BACKFILLED WITH 1 ½ SACK CEMENT STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE.
14. COST OF SPECIAL BACKFILL AND BEDDING IS INCIDENTAL TO THE UNIT PRICE BID PER LINEAR FOOT, NO EXTRA PAY.
15. WATER MAINS SHALL BE C-900 PVC PIPE BEARING THE NSF-PWSEAL AND FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT WITH NON-CORRODING HARDWARE INCLUDING MEGA-LUG RESTRAINTS CONFORMING TO AWWA CL-110 OR C-153.
16. FIRE HYDRANTS SHALL BE "MUELLER IMPROVED" OR APPROVED EQUAL.
17. MINIMUM OF SIX (6) INCHES OF CLEARANCE SHALL BE MAINTAINED BETWEEN WATER MAIN CROSSING OF OTHER UTILITIES.
18. ALL PROPOSED PIPE STUB-OUTS FROM STORM MANHOLES OR INLETS ARE TO BE PLUGGED WITH EIGHT (8) INCH BRICK WALLS UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL NOTIFY THE CITY OR GOVERNMENTAL AGENCY HAVING JURISDICTION, 48 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION.
20. GUIDELINES SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SHALL BE OBSERVED.
21. ALL SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TCEQ "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS".
22. CONTRACTOR SHALL OBTAIN ALL CONSTRUCTION PERMITS REQUIRED TO THE STANDARDS OF THE GOVERNMENTAL AGENCY HAVING JURISDICTION.
23. SANITARY MANHOLES WITHIN THE FLOOD PLAIN SHALL BE WATERPROOFED AND VENTED WITH RISER ABOVE FLOOD PLAIN OR RIMS SET ABOVE THE 100 YEAR FLOOD ELEVATION.
24. WHERE A NEW POTABLE WATERLINE CROSSES A NEW, NON-PRESSURE RATED WASTEWATER MAIN OR LATERAL AND A STANDARD LENGTH OF THE WASTEWATER PIPE IS LESS THAN 18 FEET IN LENGTH, THE POTABLE WATER PIPE SEGMENT SHALL BE CENTERED OVER THE WASTEWATER LINE. THE MATERIALS AND METHOD OF INSTALLATION SHALL CONFORM WITH ONE OF THE FOLLOWING OPTIONS.

(I) WITHIN NINE FEET HORIZONTALLY OF EITHER SIDE OF THE WATERLINE, THE WASTEWATER PIPE AND JOINTS SHALL BE CONSTRUCTED WITH PIPE MATERIAL HAVING A MINIMUM PRESSURE RATING OF AT LEAST 150 PSI. AN ABSOLUTE MINIMUM VERTICAL SEPARATION DISTANCE OF TWO FEET SHALL BE PROVIDED. THE WASTEWATER MAIN OR LATERAL SHALL BE LOCATED BELOW THE WATERLINE.

(II) ALL SECTIONS OF WASTEWATER MAIN OR LATERAL WITHIN NINE FEET HORIZONTALLY OF THE WATERLINE SHALL BE ENCASED IN AN 18-FOOT (OR LONGER) SECTION OF PIPE. FLEXIBLE ENCASING PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS OF 115 PSI AT 5.0% DEFLECTION. THE ENCASING PIPE SHALL BE CENTERED ON THE WATERLINE AND SHALL BE AT LEAST TWO NOMINAL PIPE DIAMETERS LARGER THAN THE WASTEWATER MAIN OR LATERAL. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE-FOOT (OR LESS) INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. EACH END OF THE CASING SHALL BE SEALED WITH WATERTIGHT NON-SHRINK CEMENT GROUT OR A MANUFACTURED WATERTIGHT SEAL. AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF SIX INCHES BETWEEN THE ENCASEMENT PIPE AND THE WATERLINE SHALL BE PROVIDED. THE WASTEWATER LINE SHALL BE LOCATED BELOW THE WATERLINE.

(III) WHEN A NEW WATERLINE CROSSES UNDER A WASTEWATER MAIN OR LATERAL, THE WATERLINE SHALL BE ENCASED AS DESCRIBED FOR WASTEWATER MAINS OR LATERALS IN SUBCLASS (II) OF THIS CLAUSE OR CONSTRUCTED OF DUCTILE IRON OR STEEL PIPE WITH MECHANICAL OR WELDED JOINTS AS APPROPRIATE. AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF ONE FOOT BETWEEN THE WATERLINE AND THE WASTEWATER MAIN OR LATERAL SHALL BE PROVIDED. BOTH THE WATERLINE AND WASTEWATER MAIN OR LATERAL MUST PASS A PRESSURE AND LEAKAGE TEST AS SPECIFIED IN AWWA C600 STANDARDS.

25. COST OF TRENCH SAFETY SYSTEMS AS REQUIRED BY OSHA FOR DEPTHS OVER FIVE (5) FEET IS INCIDENTAL TO THE PROJECT.
26. WATER LINES ARE TO BE CONSTRUCTED TYPICALLY 4 FEET DEEP TO THE TOP OF THE LINE FROM THE FINISHED CURB ELEVATION OR NATURAL GROUND. LINES MAY BE SAGGED OR RAISED WITHIN THE RANGE OF 3-6 FEET TO AVOID UTILITY CONFLICTS WATER LINE DEFLECTIONS SHALL NOT EXCEED THE PIPE MANUFACTURES RECOMMENDATIONS.
27. ALL SLEEVES TO BE FOUR (4) INCH SCHEDULE 40 PVC SLEEVES TO BE EIGHTEEN (18) INCHES BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL. STUB OUT THREE (3) FEET BEYOND CURB AND MARK SLEEVES LOCATIONS ON CURB.
28. THERE SHALL BE A MINIMUM HORIZONTAL DISTANCE OF FOUR (4) FEET CLEARANCE BETWEEN ALL WATER LINES AND SANITARY SEWER LINES THAT ARE SDR 26, AND A NINE (9) FOOT CLEARANCE BETWEEN ALL WATER LINES AND SANITARY SEWER LINES THAT ARE SDR 35. (SEE DETAIL)
29. ALL JOINTS OF DUCTILE IRON PIPE BELOW GROUND WILL BE M.J. WITH PIPE RESTRAINTS.
30. ALL SIGNAGE AND/OR TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY HARRIS COUNTY PRIOR TO CONSTRUCTION.

NOTE:
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES IN THE ROAD R.O.W. PRIOR TO CONSTRUCTION. (TEXAS ONE CALL 1-800-545-6005)

NOTE:
CONTRACTOR SHALL ADJUST ALL WATER VALVES AND STORM SEWER MANHOLES TO MATCH FINAL GRADES. SEE ALL GRADING PLANS SHEETS.

NOTE:
CONTRACTOR SHALL VERIFY ALL WATER, SANITARY SEWER AND STORM SEWER LINES PRIOR TO WORKING IN ANY AREA. SEE TOPO MAP AND REFERENCE DRAWINGS.

NOTE:
THIS DEVELOPMENT HAS BEEN DESIGNED TO NOT IMPEDE, IMPOUND, OR BLOCK THE NATURAL FLOW OF DRAINAGE FROM OR ACROSS ADJACENT AND CONTIGUOUS PROPERTIES.

NOTE:
ALL FUTURE SITE AND BUILDINGS PROJECTS WILL REQUIRE CIVIL/SITE DRAWING APPROVAL AND CHANGES TO THE PLATS MAY BE REQUIRED AS A PART OF THE REVIEW PROCESS.

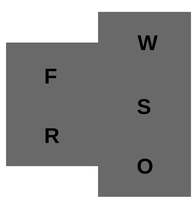
ALL PIPE PLACEMENT AND JOINTING WILL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACTURES' REQUIREMENTS AND SPECIFICATIONS.

STORM SEWER PIPE — HDPE N-12, PVC SDR35 OR RCP CLASS III (RUBBER GASKET)— EXCEPT IF NOTED OTHERWISE
POTABLE WATER —— 3" AND SMALLER – SCH 80 PVC
4" AND LARGER – C-900, DR 18- 150 PSI
SANITARY SEWER – GRAVITY , PVC SDR 26
CULVERT PIPE – RCP CLASS IV T&G

THE OWNER WILL SET UP THE NECESSARY WATER ACCOUNTS AND PURCHASE THE WATER METERS AND METER BOXES.
THE CONTRACTOR WILL PICK UP THE METERS AND BOXES AT THE CITY AND DELIVER THEM TO THE JOBSITE.
THE CONTRACTOR WILL MAKE THE NECESSARY TAPS AND INSTALL THE METERS AS REQUIRED BY HARRIS COUNTY.

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com
TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH2
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

	REVISION	DESCRIPTION	DATE
2	ADDENDUM NO. 3		10-07-2020

PROFESSIONAL SEALS

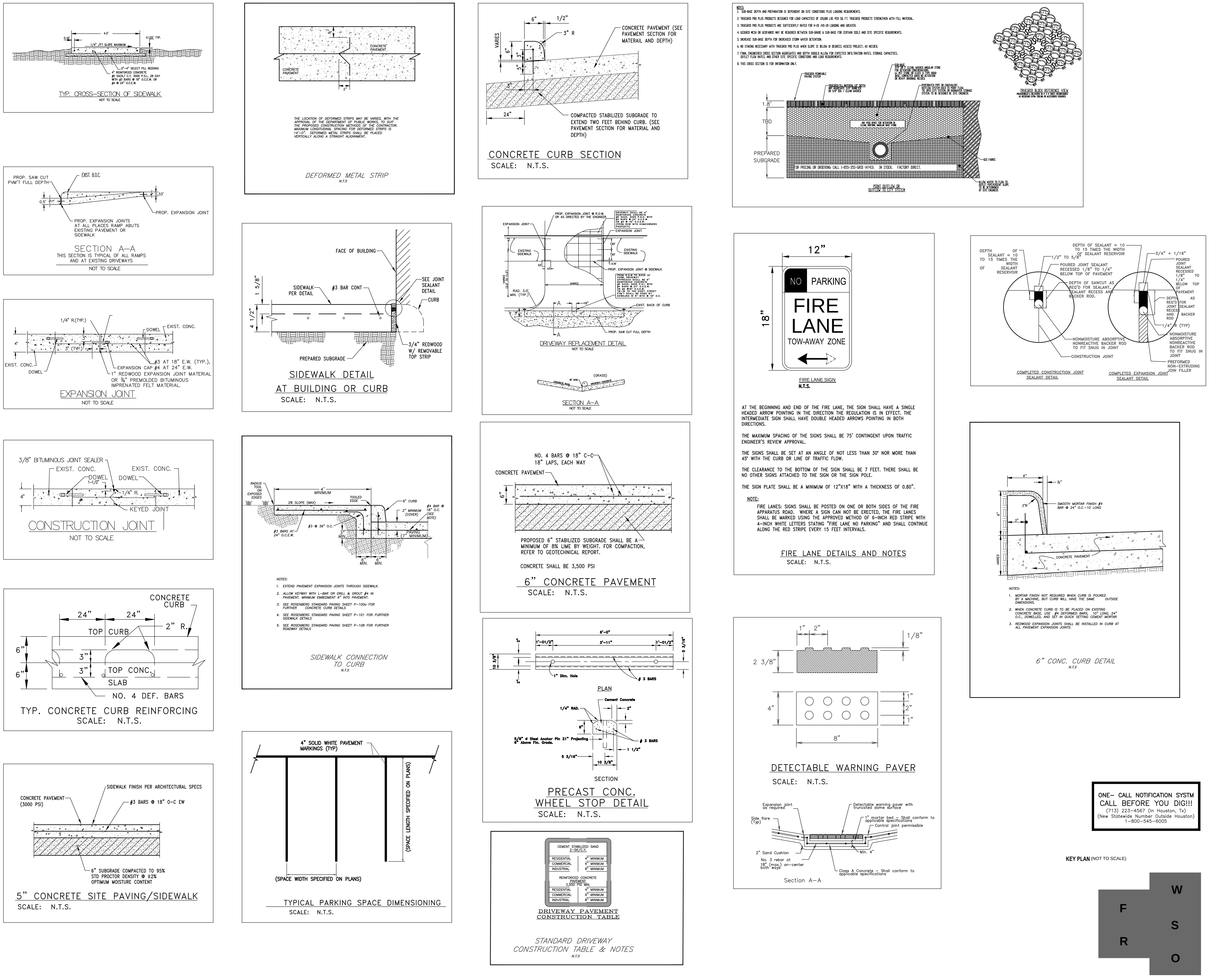
STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

GENERAL NOTES

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

2 C8.0-PH2
SHEET NUMBER

FILE PATH
FILE NAME: File Path
DATE STAMP: 6/26/2008 2:02:08 PM



TYP. CROSS-SECTION OF SIDEWALK
NOT TO SCALE
DEFORMED METAL STRIP
N.T.S
THE LOCATION OF DEFORMED STRIPS MAY BE VARIED, WITH THE APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS, TO SUIT THE PROPOSED CONSTRUCTION METHODS OF THE CONTRACTOR. MAXIMUM LONGITUDINAL SPACING FOR DEFORMED STRIPS IS 14'-0". DEFORMED METAL STRIPS SHALL BE PLACED VERTICALLY ALONG A STRAIGHT ALIGNMENT.
CONCRETE PAVEMENT (SEE PAVEMENT SECTION FOR MATERAIL AND DEPTH)
COMPACTED STABILIZED SUBGRADE TO EXTEND TWO FEET BEHIND CURB. (SEE PAVEMENT SECTION FOR MATERIAL AND DEPTH)
CONCRETE CURB SECTION
SCALE: N.T.S.
PROP. SAW CUT PVM'T FULL DEPTH
EXIST. B.O.C.
PROP. EXPANSION JOINT
PROP. EXPANSION JOINTS AT ALL PLACES RAMP ABUTS EXISTING PAVEMENT OR SIDEWALK
SECTION A-A
THIS SECTION IS TYPICAL OF ALL RAMPS AND AT EXISTING DRIVEWAYS
NOT TO SCALE
FACE OF BUILDING
SIDEWALK PER DETAIL
#3 BAR CONT
SEE JOINT SEALANT DETAIL
CURB
PREPARED SUBGRADE
3/4" REDWOOD W/ REMOVABLE TOP STRIP
SIDEWALK DETAIL AT BUILDING OR CURB
SCALE: N.T.S.
DRIVEWAY REPLACEMENT DETAIL
NOT TO SCALE
SECTION A-A
NOT TO SCALE
1/4" R.(TYP.)
DOWEL
EXIST. CONC.
#3 AT 18" E.W. (TYP.),
EXPANSION CAP #4 AT 24" E.W.
1" REDWOOD EXPANSION JOINT MATERIAL OR ¾" PREMOLDED BITUMINOUS IMPRENATED FELT MATERIAL.
EXPANSION JOINT
NOT TO SCALE
SIDEWALK CONNECTION TO CURB
N.T.S
NOTES:
1. EXTEND PAVEMENT EXPANSION JOINTS THROUGH SIDEWALK.
2. ALLOW KEYWAY WITH L-BAR OR DRILL & GROUT #4 IN PAVEMENT. MINIMUM EMBEDMENT 6" INTO PAVEMENT.
3. SEE ROSENBERG STANDARD PAVING SHEET P-100a FOR FURTHER CONCRETE CURB DETAILS
4. SEE ROSENBERG STANDARD PAVING SHEET P-101 FOR FURTHER SIDEWALK DETAILS
5. SEE ROSENBERG STANDARD PAVING SHEET P-108 FOR FURTHER ROADWAY DETAILS
NO. 4 BARS @ 18" C-C
18" LAPS, EACH WAY
CONCRETE PAVEMENT
PROPOSED 6" STABILIZED SUBGRADE SHALL BE A MINIMUM OF 8% LIME BY WEIGHT. FOR COMPACTION, REFER TO GEOTECHNICAL REPORT.
CONCRETE SHALL BE 3,500 PSI
6" CONCRETE PAVEMENT
SCALE: N.T.S.
3/8" BITUMINOUS JOINT SEALER
EXIST. CONC.
DOWEL
KEYED JOINT
CONSTRUCTION JOINT
NOT TO SCALE
CONCRETE CURB
TOP CURB
TOP CONC. SLAB
NO. 4 DEF. BARS
TYP. CONCRETE CURB REINFORCING
SCALE: N.T.S.
4" SOLID WHITE PAVEMENT MARKINGS (TYP)
(SPACE LENGTH SPECIFIED ON PLANS)
(SPACE WIDTH SPECIFIED ON PLANS)
TYPICAL PARKING SPACE DIMENSIONING
SCALE: N.T.S.
PLAN
SECTION
PRECAST CONC. WHEEL STOP DETAIL
SCALE: N.T.S.
CONCRETE PAVEMENT (3000 PSI)
SIDEWALK FINISH PER ARCHITECTURAL SPECS
#3 BARS @ 18" O-C EW
6" SUBGRADE COMPACTED TO 95% STD PROCTOR DENSITY @ ±2% OPTIMUM MOISTURE CONTENT
5" CONCRETE SITE PAVING/SIDEWALK
SCALE: N.T.S.
DRIVEWAY PAVEMENT CONSTRUCTION TABLE
STANDARD DRIVEWAY CONSTRUCTION TABLE & NOTES
N.T.S
TRUEGRID BLOCK REFERENCE VIEW
FOR PRICING OR ORDERING CALL 1-855-355-GRID (4743). IN STOCK. FACTORY DIRECT.
PREPARED SUBGRADE
NO PARKING
FIRE LANE
TOW-AWAY ZONE
FIRE LANE SIGN
N.T.S.
AT THE BEGINNING AND END OF THE FIRE LANE, THE SIGN SHALL HAVE A SINGLE HEADED ARROW POINTING IN THE DIRECTION THE REGULATION IS IN EFFECT. THE INTERMEDIATE SIGN SHALL HAVE DOUBLE HEADED ARROWS POINTING IN BOTH DIRECTIONS.
THE MAXIMUM SPACING OF THE SIGNS SHALL BE 75' CONTINGENT UPON TRAFFIC ENGINEER'S REVIEW APPROVAL.
THE SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° WITH THE CURB OR LINE OF TRAFFIC FLOW.
THE CLEARANCE TO THE BOTTOM OF THE SIGN SHALL BE 7 FEET. THERE SHALL BE NO OTHER SIGNS ATTACHED TO THE SIGN OR THE SIGN POLE.
THE SIGN PLATE SHALL BE A MINIMUM OF 12"X18" WITH A THICKNESS OF 0.80".
NOTE:
FIRE LANES: SIGNS SHALL BE POSTED ON ONE OR BOTH SIDES OF THE FIRE APPARATUS ROAD. WHERE A SIGN CAN NOT BE ERECTED, THE FIRE LANES SHALL BE MARKED USING THE APPROVED METHOD OF 6-INCH RED STRIPE WITH 4-INCH WHITE LETTERS STATING "FIRE LANE NO PARKING" AND SHALL CONTINUE ALONG THE RED STRIPE EVERY 15 FEET INTERVALS.
FIRE LANE DETAILS AND NOTES
SCALE: N.T.S.
DETECTABLE WARNING PAVER
SCALE: N.T.S.
Section A-A
COMPLETED CONSTRUCTION JOINT SEALANT DETAIL
COMPLETED EXPANSION JOINT SEALANT DETAIL
6" CONC. CURB DETAIL
N.T.S
ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005
KEY PLAN (NOT TO SCALE)

Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com
TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue, Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue, Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana, Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr. Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway, Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities PH2
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

3	ADDENDUM NO. 3	10-07-2020

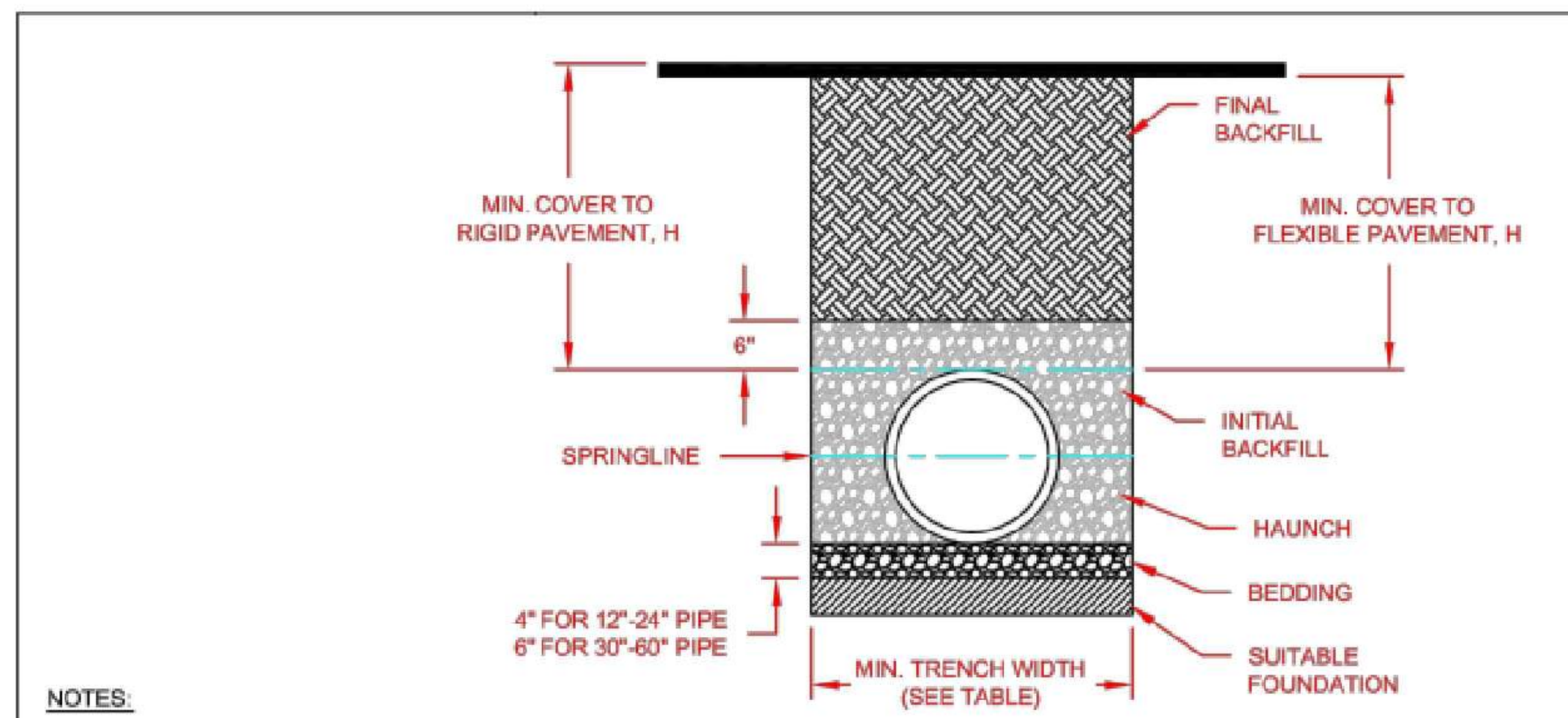
PROFESSIONAL SEALS
STATE OF TEXAS — FRED DALLY — 90904 — LICENSED PROFESSIONAL ENGINEER — 10/07/2020

PAVEMENT DETAILS

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

C9.0-PH2
SHEET NUMBER

FILE PATH: File Path
USER NAME: JDM
DATE STAMP: 6/26/2008 2:02:08 PM



RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

MINIMUM RECOMMENDED COVER BASED ON VECHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION: H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

MINIMUM RECOMMENDED COVER BASED ON RAILWAY LOADING CONDITIONS

PIPE DIAM.	COOPER E-80**
UP TO 24"	24"
30"-36"	36"
42"-60"	48"

** COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE.

*** E-80 COVER REQUIREMENTS, ARE ONLY APPLICABLE TO ASTM F 2306 PIPE.

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).

5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

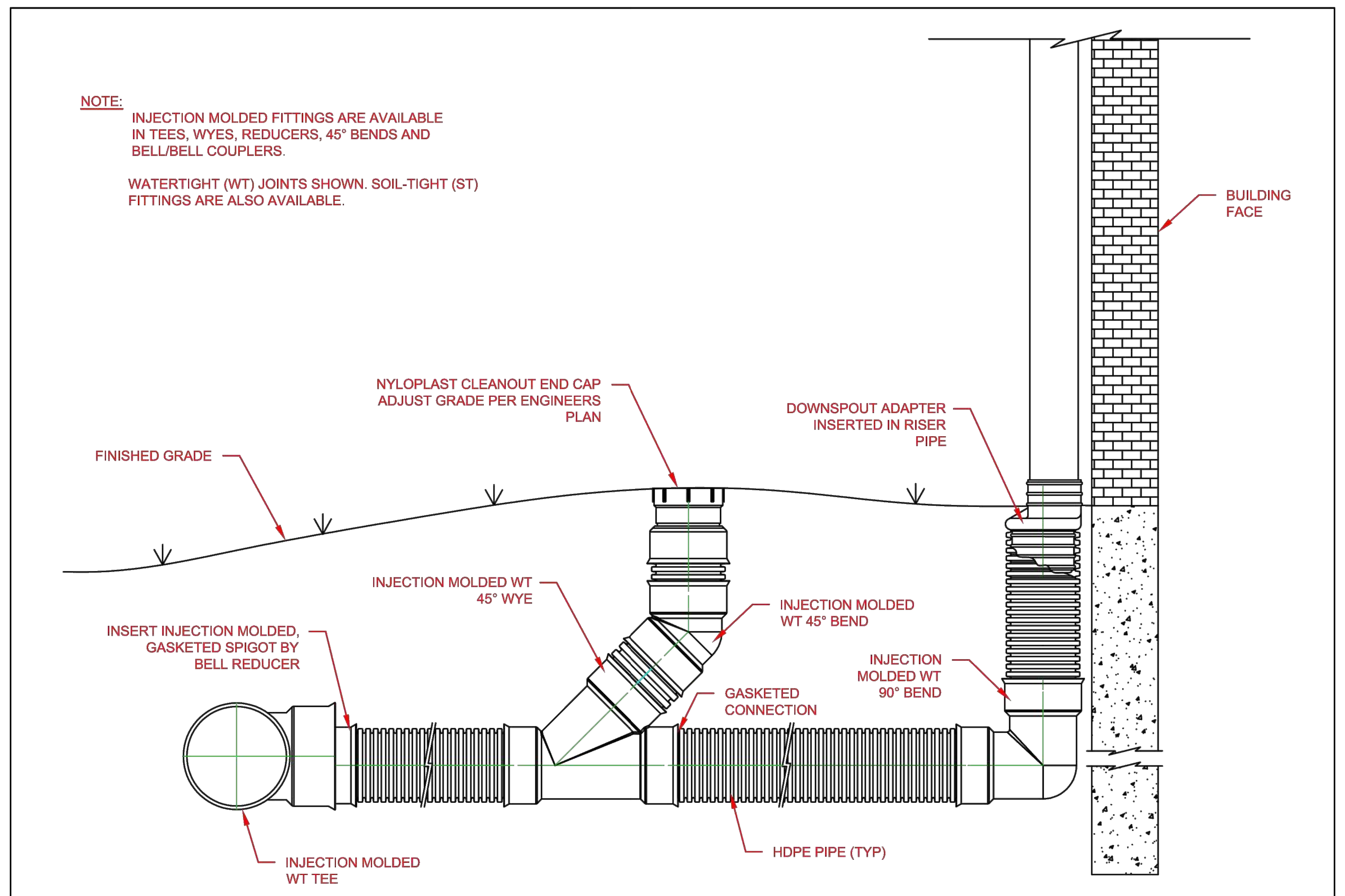
REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
2	ADDED E-80 INFORMATION	TJR	08/20/07	

TYPICAL TRENCH DETAIL
DRAWING NUMBER: STD-101

ADVANCED DRAINAGE SYSTEMS, INC.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

CKS | 10/18/06 | NTS | 1 OF 1

NOTE:
INJECTION MOLDED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45° BENDS AND BELL/BELL COUPLERS.
WATERTIGHT (WT) JOINTS SHOWN. SOIL-TIGHT (ST) FITTINGS ARE ALSO AVAILABLE.

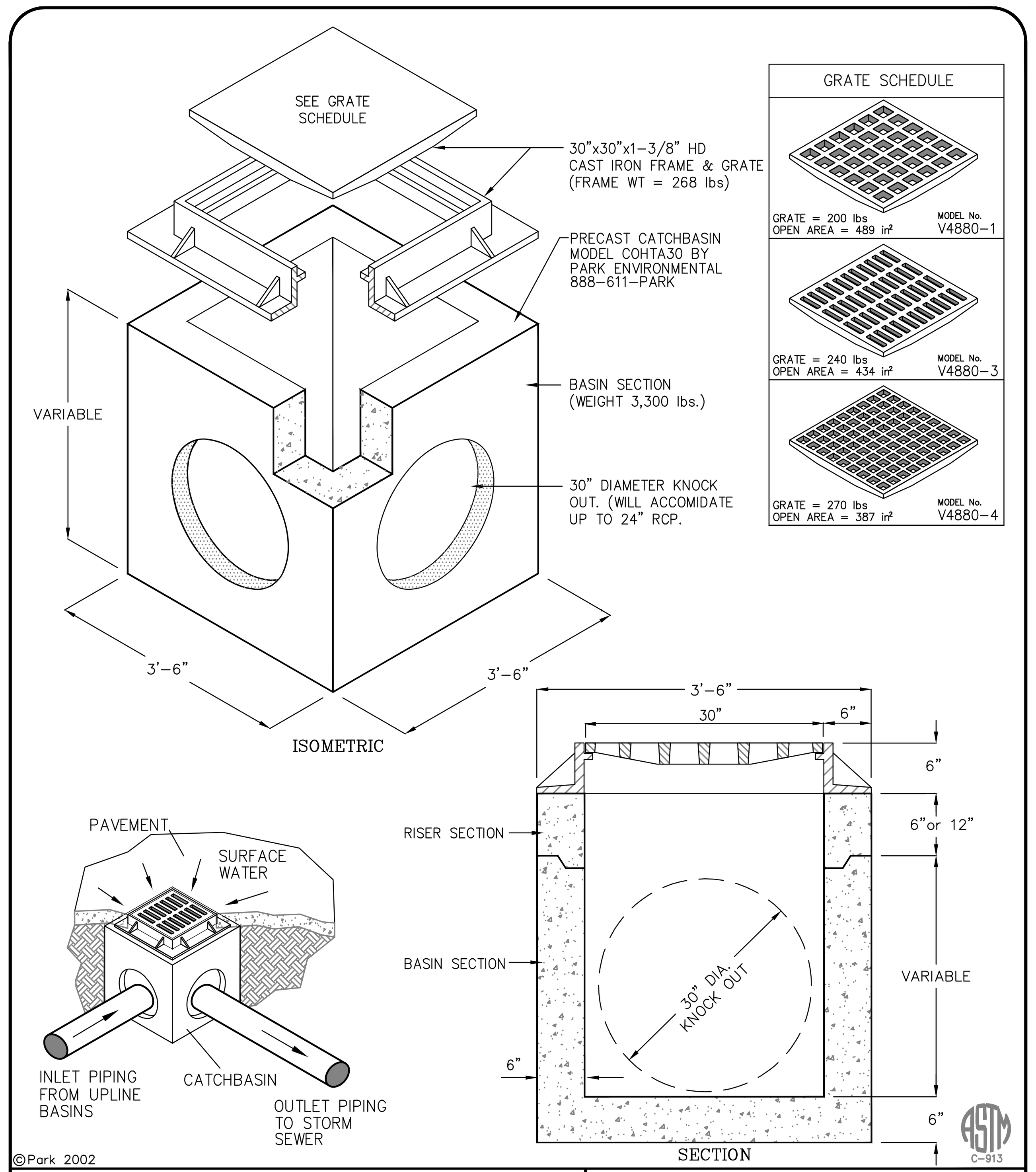


REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
1	UPDATED DRAWING	TJR	01/11/07	CKS

ROOF DRAIN W/45 DEG WYE CLEANOUT
DRAWING NUMBER: STD-1001

ADVANCED DRAINAGE SYSTEMS, INC.
4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

KSK | 04.02.03 | NTS | 1 OF 1



SPECIFICATIONS

CONCRETE :	Class 1 concrete with of design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Rated for H-20 Loading.
REINFORCEMENT:	Grade 60 reinforced with steel rebar to conform to ASTM A615 on required centers or equal.
C.I. CASTINGS:	Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30.

PARK ENVIRONMENTAL EQUIPMENT
888-611-PARK
www.park-USA.com
"Expect the Best"

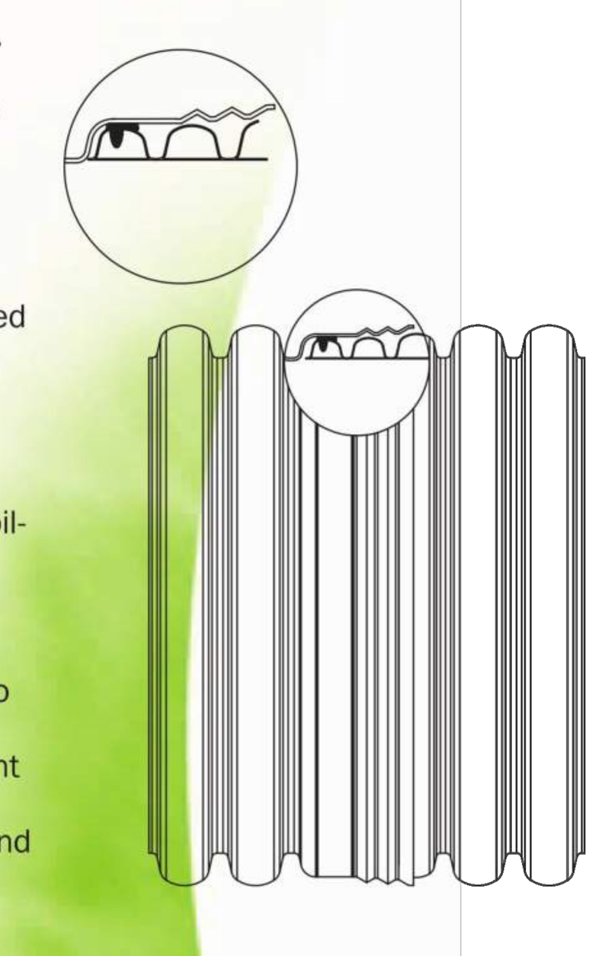
TYPE-A GRATE INLET
SIZE 30"

SCALE NONE | DATE 01/02 | DWG. NO. COHTAI-2 | REV. A

ADS N-12® ST IB PIPE (PER AASHTO) SPECIFICATION

SCOPE
This specification describes 4- through 60-inch (100 to 1500 mm) ADS N-12 ST IB pipe (per AASHTO) for use in gravity flow drainage applications.

PIPE REQUIREMENTS
N-12 ST IB pipe (per AASHTO) shall have a smooth interior and annular exterior corrugations.
- 4- through 10-inch (100 to 250 mm) shall meet AASHTO M252, Type S
- 12- through 60-inch (300 to 1500 mm) shall meet AASHTO M294, Type S or ASTM F2306
- Manning's "n" value for use in design shall be 0.012



JOINT PERFORMANCE
Pipe shall be joined using a bell-and-spigot joint meeting AASHTO M252, AASHTO M294, or ASTM F2306. The joint shall be soil-tight and gaskets, when applicable, shall meet the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable wrap to ensure the gasket is free from debris. A joint lubricant supplied by the manufacturer shall be used on the gasket and bell during assembly.

FITTINGS
Fittings shall conform to AASHTO M252, AASHTO M294 or ASTM F2306.. Bell and spigot connections shall utilize a spun-on or welded bell and valley or saddle gasket meeting the soil-tight joint performance requirements of AASHTO M252, AASHTO M294 or ASTM F2306.

MATERIAL PROPERTIES
Virgin material for pipe and fitting production shall be high-density polyethylene conforming with the minimum requirements of cell classification 424420C for 4- through 10-inch (100 to 250 mm) diameters, or 435400C for 12- through 60-inch (300 to 1500 mm) diameters, as defined and described in the latest version of ASTM D3350, except that carbon black content should not exceed 4%. The 12- through 60-inch (300 to 1500 mm) virgin pipe material shall comply with the notched constant ligament-stress (NCLS) test as specified in Sections 9.5 and 5.1 of AASHTO M294 and ASTM F2306, respectfully.

INSTALLATION
Installation shall be in accordance with ASTM D2321 and ADS published installation guidelines, with the exception that minimum cover in trafficked areas for 4- through 48-inch (100 to 1200 mm) diameters shall be one foot (0.3 m) and for 54- and 60-inch (1350-1500 mm) diameters, the minimum cover shall be 2 foot (0.6 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1, Class 2 (minimum 90% SPD) or Class 3 (minimum 90% SPD) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.01. Contact your local ADS representative or visit our website at www.ads-pipe.com for a copy of the latest installation guidelines.

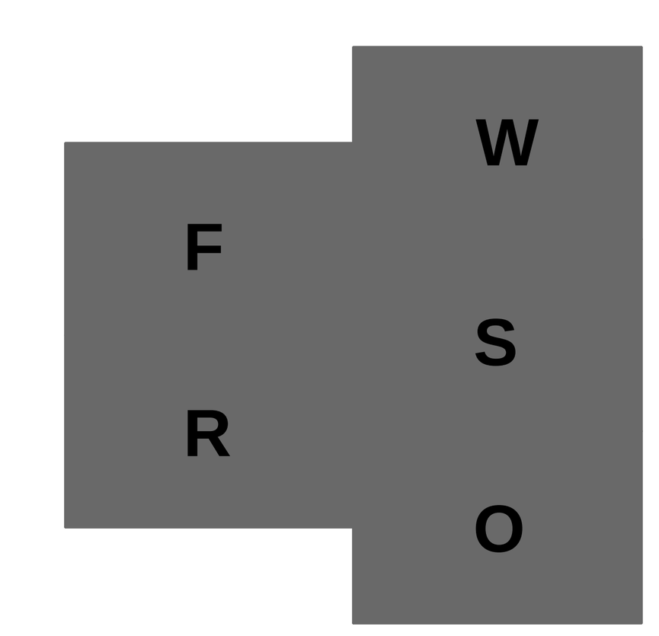
PIPE DIMENSIONS

Nominal Pipe I.D.* in. (mm)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)	42 (1050)	48 (1200)	54 (1350)	60 (1500)
Nominal Pipe O.D.** in. (mm)	4.8 (122)	6.9 (175)	9.1 (231)	11.4 (290)	14.5 (368)	18 (457)	22 (559)	28 (711)	36 (914)	42 (1050)	48 (1200)	54 (1350)	61 (1549)	67 (1702)
Perforations	All diameters available with or without perforations.													

*Check with sales representative for availability by region.
**Pipe O.D. values are provided for reference purposes only, values stated for 12- through 60-inch are ±1 inch. Contact a sales representative for exact values.

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com
TEL 713 871 8484
FAX 713 871 8440
ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities PH2
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS
STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

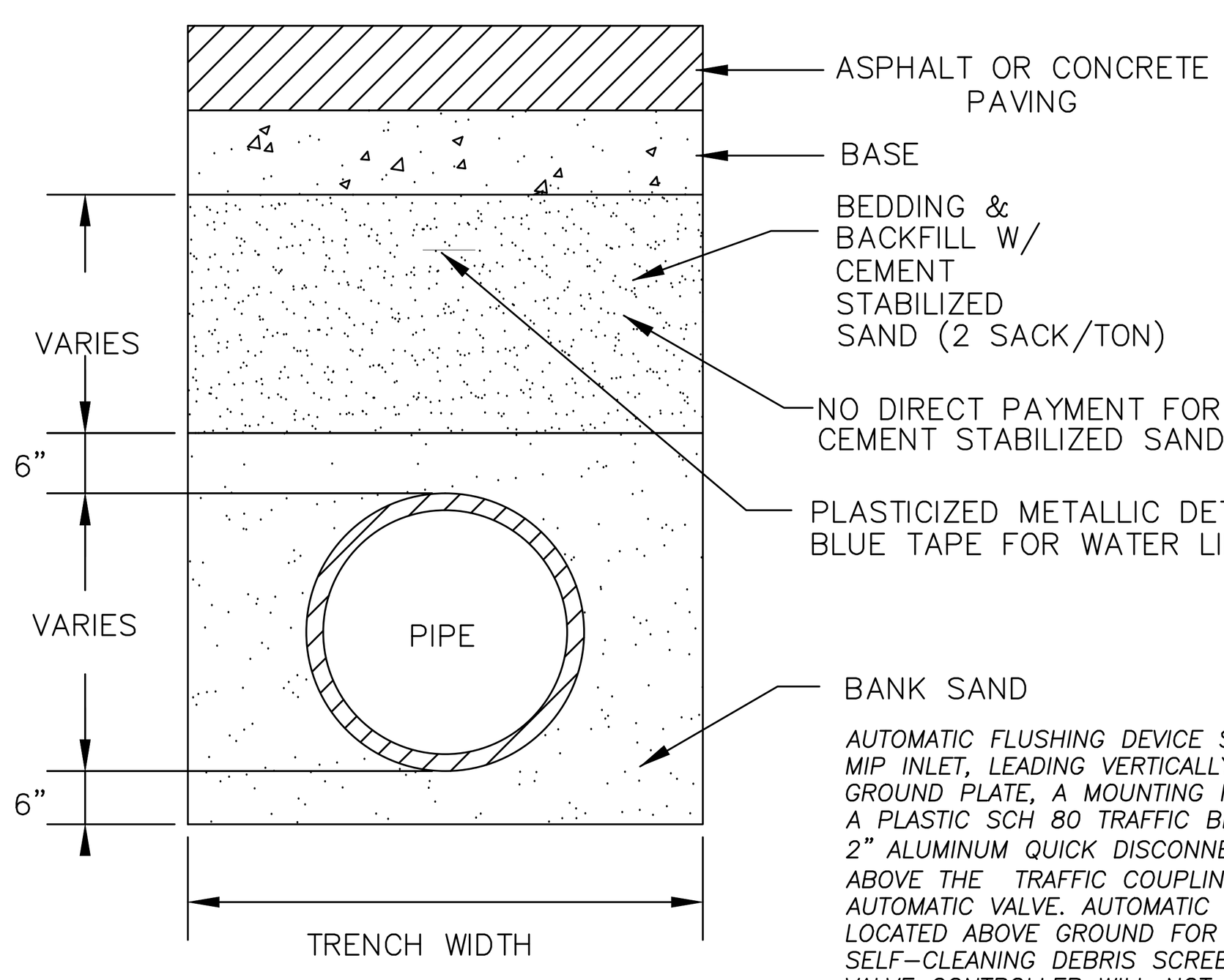
STORM DRAIN DETAILS

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

3
C10.0-PH2
SHEET NUMBER

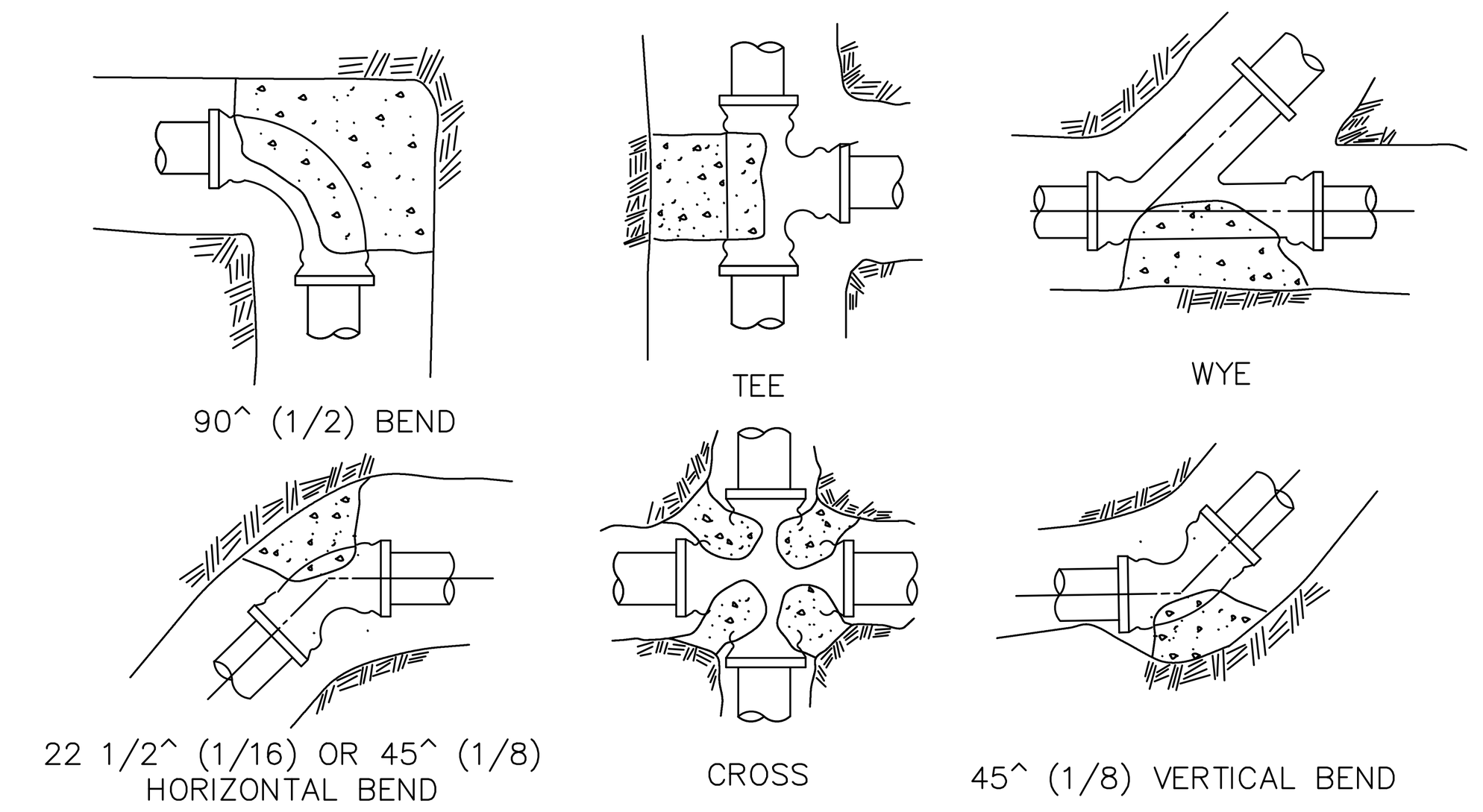
FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM

TYPICAL DETAILS WATER AND SANITARY SEWER (SDR 26/SDR 35)

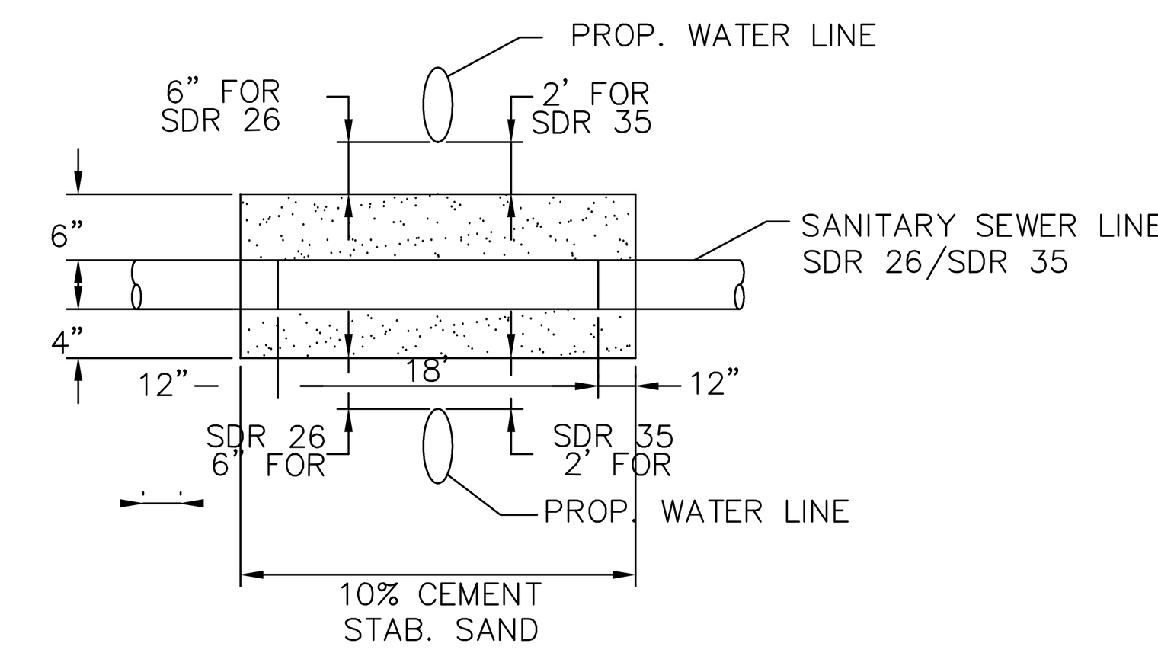


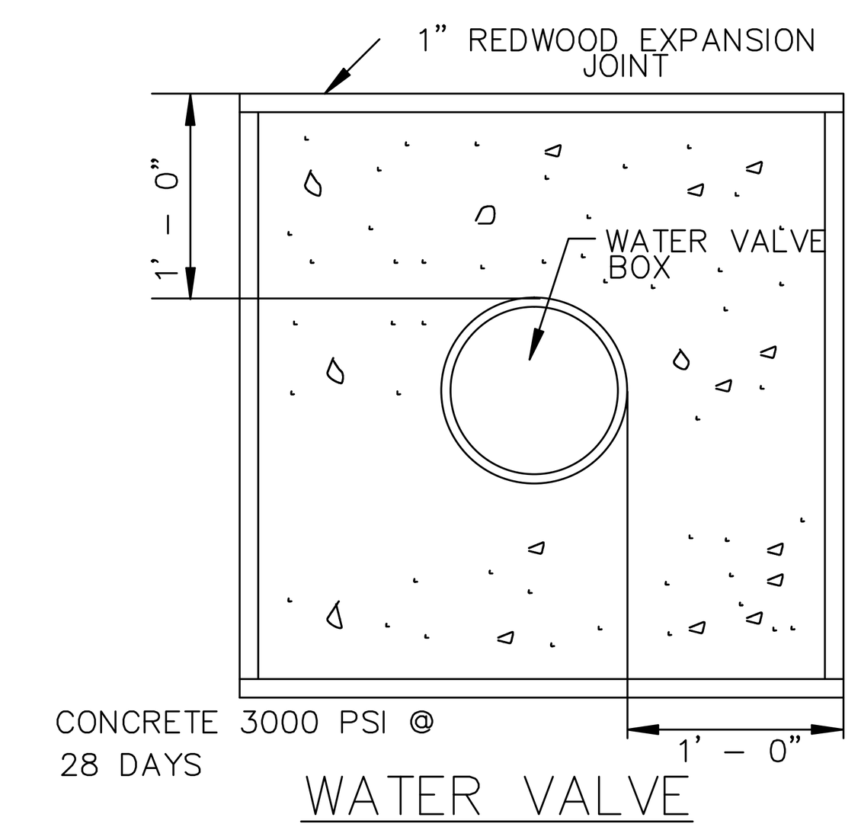
BACKFILL DETAIL WATERLINE UNDER PAVEMENT

AUTOMATIC FLUSHING DEVICE SHALL HAVE A 2" BRASS MIP INLET, LEADING VERTICALLY THROUGH A UV RESISTANT GROUND PLATE, A MOUNTING FLANGE, AND ATTACHING TO A PLASTIC SCH 80 TRAFFIC BREAK–AWAY COUPLING. A 2" ALUMINUM QUICK DISCONNECT DEVICE SHALL BE LOCATED ABOVE THE TRAFFIC COUPLING, LEADING INTO THE 2" AUTOMATIC VALVE. AUTOMATIC SOLENOID VALVE SHALL BE LOCATED ABOVE GROUND FOR EASY ACCESS, HAVE INTERNAL, SELF–CLEANING DEBRIS SCREEN, AND HAVE A 220 PSI RATING. VALVE CONTROLLER WILL NOT REQUIRE A SECOND HAND–HELD DEVICE FOR PROGRAMMING, MUST HAVE A MINIMUM OF 9 POSSIBLE FLUSHING CYLES PER DAY. SHALL BE SUBMERSIBLE TO 12 FEET. OPERATE WITH A 9 VOLT BATTERY, HAVE RESIN–SEALED ELECTRICAL COMPONENTS, AND SHALL BE LOCATED ABOVE WATER FLOW. SOLENOID SHALL HAVE NO LOOSE PARTS WHEN REMOVED FROM VALVE. VALVE, SOLENOID, AND CONTROLLER SHALL HAVE RUBBER CAPS FOR ADDED PROTECTION. EACH UNIT SHALL HAVE A DOUBLE–VALVE, ALL BRASS SAMPLING POINT. WATER SHALL EXIT UNIT HORIZONTALLY THROUGH HOLES LOCATED NEAR GROUNDLINE. ALL ABOVE–GROUND COMPONENTS SHALL BE CONTAINED WITHIN A UV–RESISTANT LOCKING DOMED COVER, AS MANUFACTURED BY KUPFERLE FOUNDRY COMPANY, ST. LOUIS, MO , 1–800–231–3990, OR APPROVED EQUAL.



TYPICAL THRUST BLOCKS



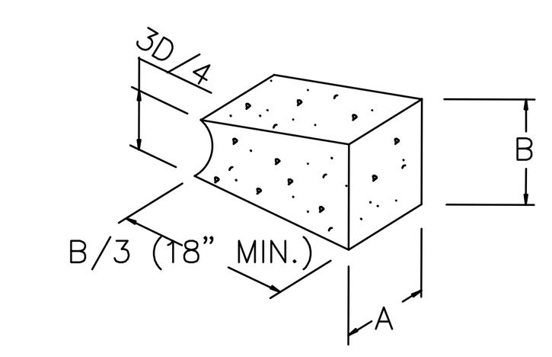


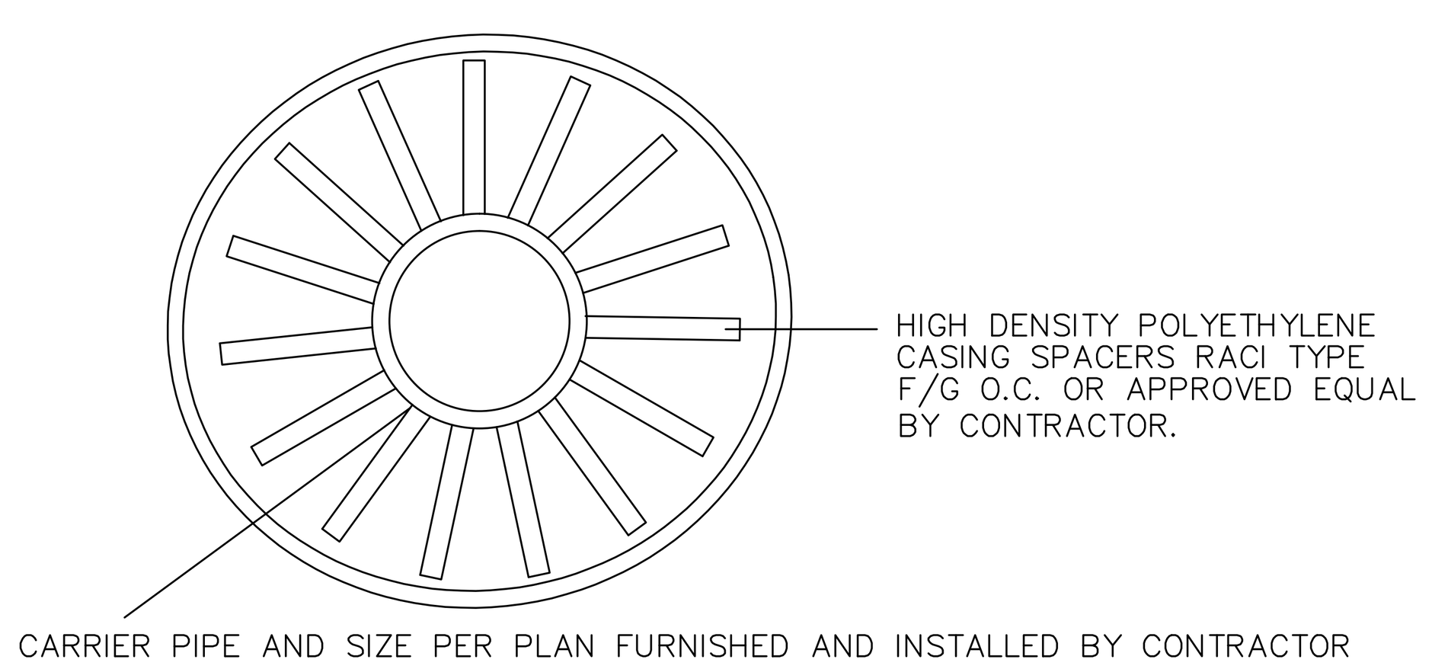
WATER VALVE BLOCKOUT

MINIMUM DIMENSIONS FOR THRUST BLOCKS

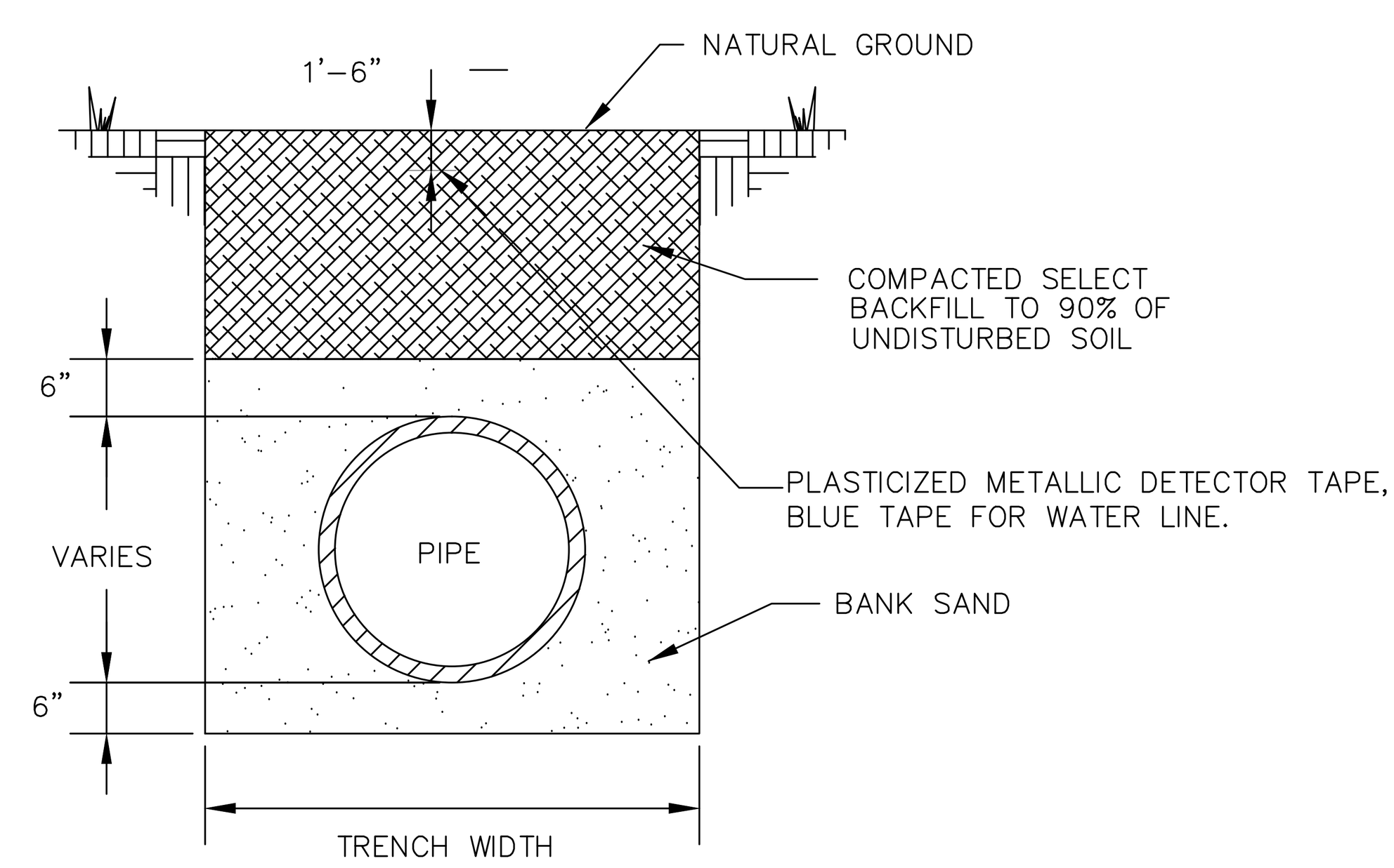
FITTING SIZE	TEES & PLUGS		90 BEND		45 BENDS & WYES	
	H	W	H	W	H	W
4"	1'–7"	1'–2"	1'–9"	1'–6"	1'–8"	0'–10"
6"	2'–0"	1'–11"	2'–5"	2'–2"	1'–10"	1'–7"
8"	2'–8"	2'–6"	3'–2"	3'–0"	2'–5"	2'–1"
10"	3'–4"	3'–3"	4'–0"	3'–10"	3'–0"	2'–9"
12"	4'–0"	3'–10"	4'–8"	4'–8"	3'–8"	3'–3"
14"	5'–5"	3'–10"	6'–6"	4'–11"	4'–9"	3'–5"
20"	5'–0"	5'–0"	6'–0"	6'–0"	5'–0"	4'–0"
24"	6'–0"	6'–0"	7'–0"	7'–0"	5'–0"	5'–0"
30"	7'–6"	7'–6"	8'–0"	8'–0"	6'–3"	6'–3"

FITTING SIZE	REDUCERS & 22 ½ BENDS		11 ? BENDS	
	H	W	H	W
4"	1'–7"	0'–6"	0'–6"	0'–6"
6"	1'–9"	0'–10"	1'–0"	0'–6"
8"	1'–9"	1'–6"	1'–0"	1'–0"
10"	2'–2"	1'–11"	1'–6"	1'–0"
12"	2'–7"	2'–3"	2'–0"	1'–0"
14"	3'–5"	2'–5"	2'–0"	1'–6"
20"	3'–6"	3'–0"	3'–0"	2'–0"
24"	4'–6"	3'–0"	3'–0"	3'–0"
30"	4'–9"	4'–6"	3'–3"	3'–3"





RACI CASING SPACERS					
DR 18 C900 PVC PIPE			SDR 35 PVC SEWER PIPE		
PIPE SIZE	STEEL CASING DIA.	RACI SPACERS	PIPE SIZE	STEEL CASING DIA.	RACI SPACER
4"	10"	2F OR 2N	6"	10"	2F, 1G OR 1M ,1N OR 1E, 2H OR 2P, 1Q
6"	12"	2F, 1G OR 2M OR 1E,1H OR 2P	8"	12"	3F, 1G OR 1M, 2N OR 2E, 1H OR 1P, 2Q
8"	14"	3F, 1G OR 2M, 1N OR 2E, 1H OR 2P, 1Q	10"	16"	4F OR 3M OR 3E OR 3P
10"	16"	4F OR 3M OR 3E OR 3P	12"	18"	5F OR 2M, 2N OR 3E, 1H OR 2P, 2Q
12"	20"	5F OR 3M, 1N OR 3E, 1H OR 3P, 1Q	15"	22"	6F OR 3M, 2N OR 4E, OR 3P, 2Q
14"	22"	6F OR 4M OR 4E OR 4P	18"	24"	7F OR 5M, OR 5E OR 5P
16"	24"	7F OR 5M, OR 4E, 1H OR 5P			

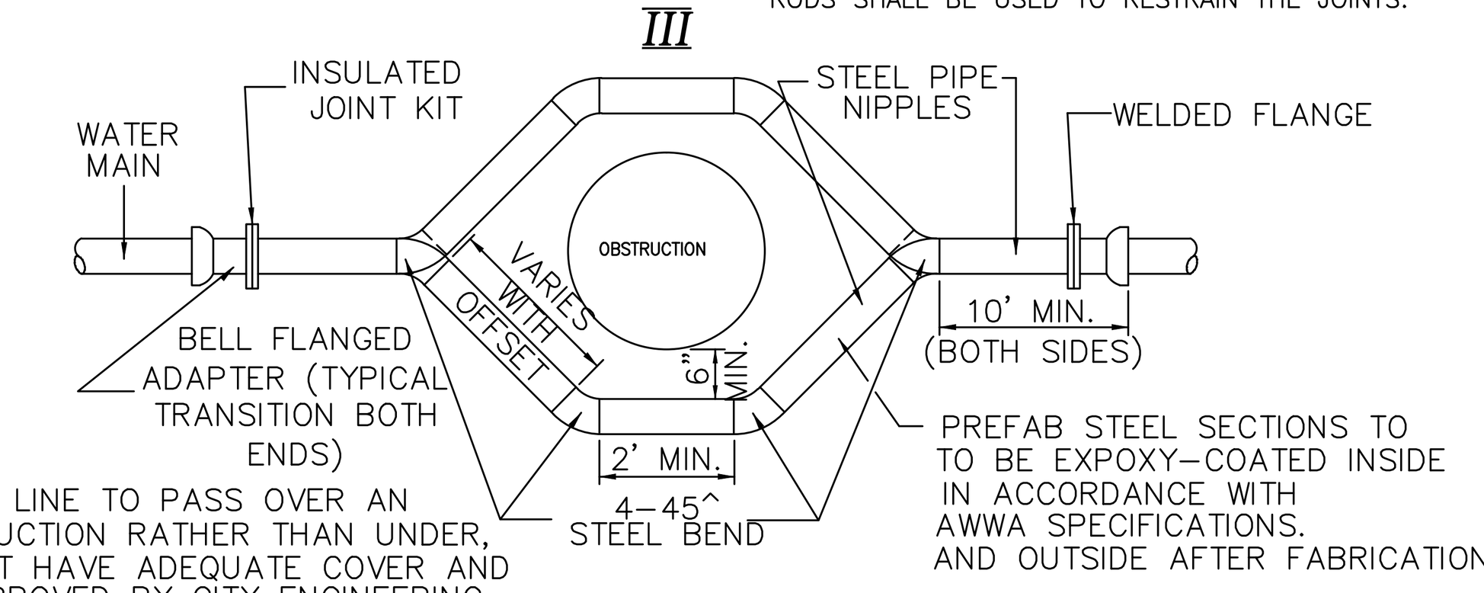


BACKFILL DETAIL NOT UNDER PAVEMENT

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

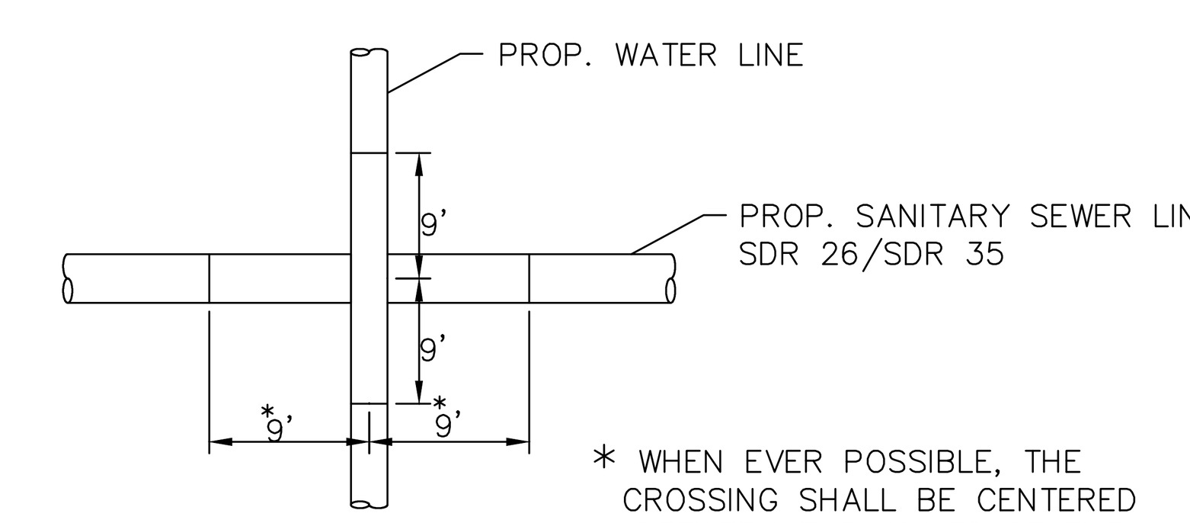
NOTES:
1. ALL MATERIALS AND COATINGS TO BE IN ACCORDANCE WITH ENGINEERING DEPARTMENT SPECIFICATIONS
2. INSULATED JOINT TO BE MADE UP USING INSULATING GASKETS, PLASTIC BOLT SLEEVES AND WASHERS OF INSULATING GASKET MATERIAL BACKED WITH ZINC–PLATED WASHERS, OR OTHER METHODS APPROVED SPECIFICALLY BY THE ENGINEERING DEPARTMENT.
3. NO FIELD FABRICATION OF STEEL WATER PIPE OFFSETS ALLOWED.
4. OFFSET SECTIONS SHALL BE THRUST–BLOCKED IN ACCORDANCE WITH DETAIL SHEET No. MC–11–03, IF NECESSARY ALL THREAD RODS SHALL BE USED TO RESTRAIN THE JOINTS.

III



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

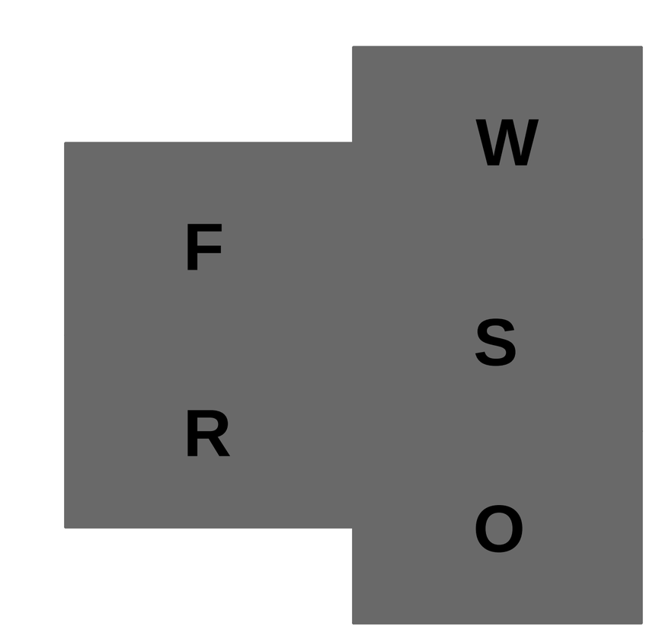
STEEL WATER PIPE OFFSET ASSEMBLY



* WHEN EVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WASTE WATER LINE.

ONE– CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223–4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1–800–545–6005

KEY PLAN (NOT TO SCALE)



Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com
TEL 713 871 8484
FAX 713 871 8440
ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH2
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS
STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

WATER DETAILS

DRAWN BY JDM
CHECKED BY JDM
PROJECT NUMBER 418198
PROJECT ABBREVIATION GC_R&B
ORIGINAL ISSUE ISSUE FOR PERMIT
DATE 07 OCT 2020

3 C11.0-PH2
SHEET NUMBER

FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM

NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITION. SEE SPECIFICATIONS FOR REQUIREMENTS IN OTHER CONDITIONS.

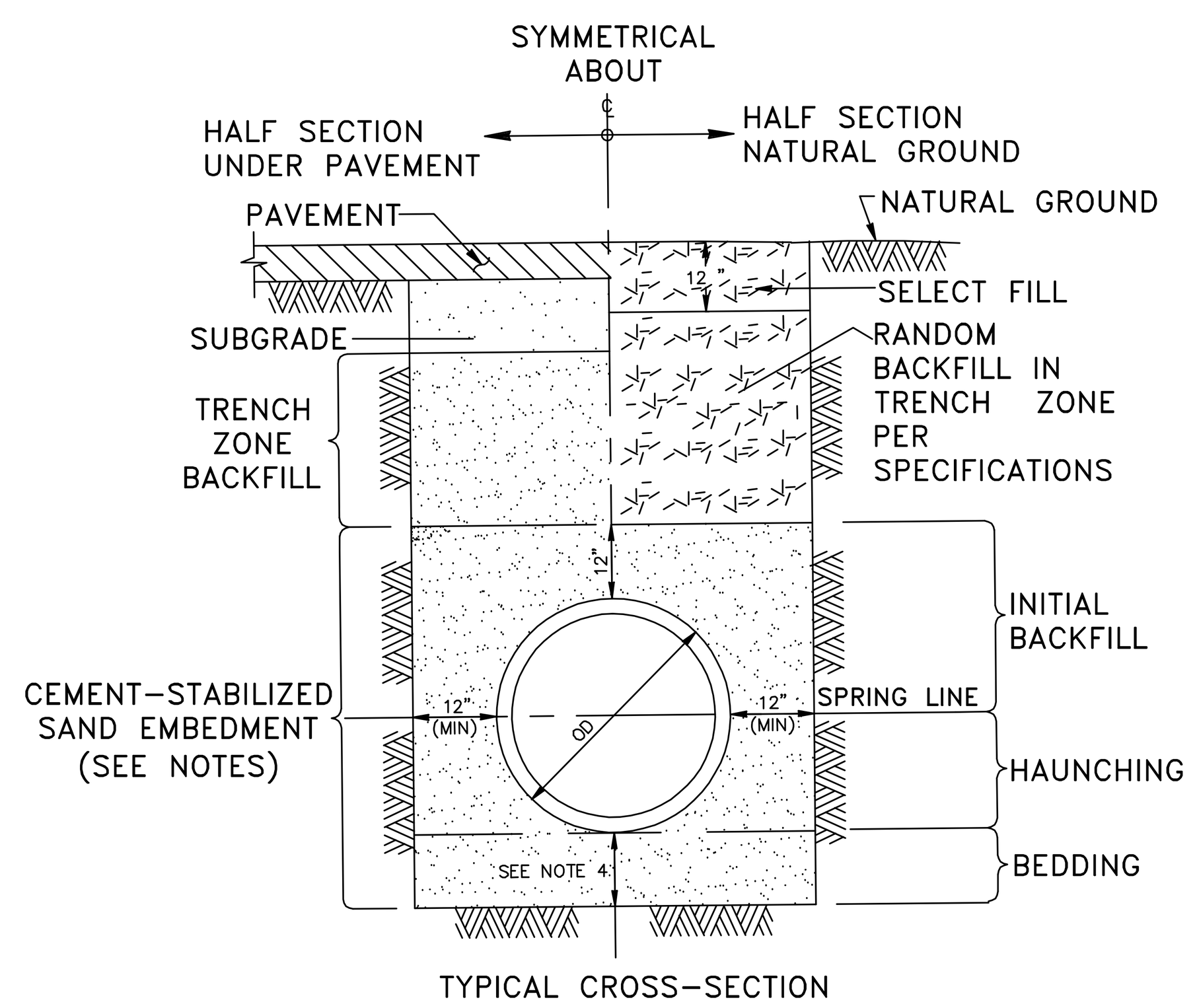
2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "A" FOR THE NOMINAL PIPE SIZE:

NOMINAL PIPE SIZE	"A"
18" TO 30"	24"
OVER 30"	36"

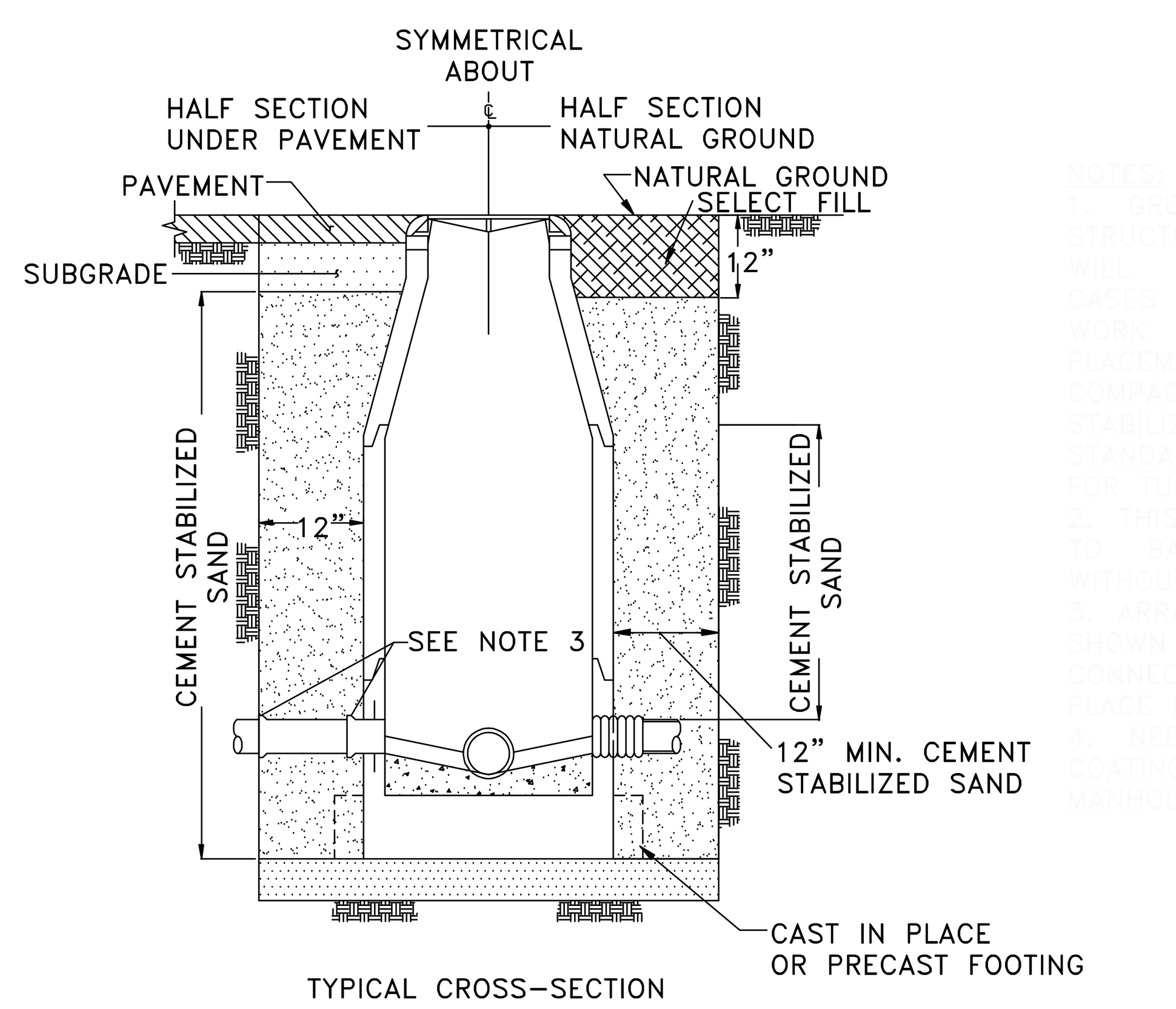
3. MAX TRENCH WIDTH SHALL BE NOT GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.

4. MIN. BEDDING DEPTH SHALL BBE 12 INCHES.

5. ALTERNATIVE EMBEDMENT BACKFILL MATERIALS FOR FORCE MAINS MAY BE ALLOWED

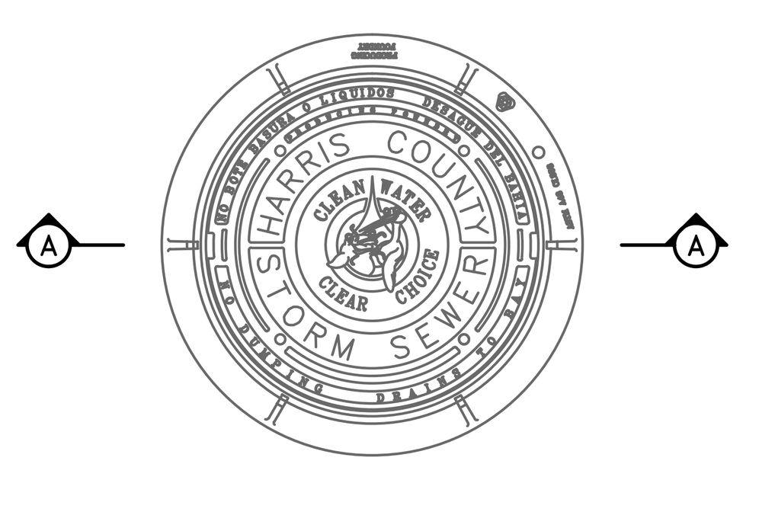


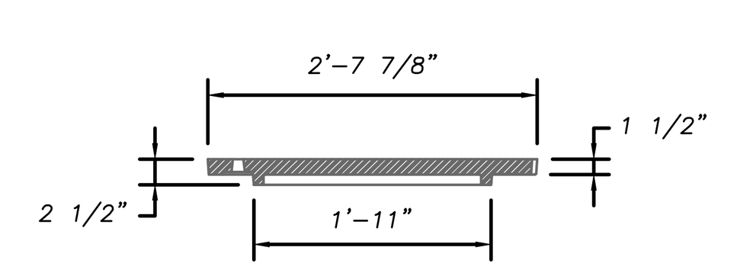
SANITARY SEWER BEDDING & BACKFILL

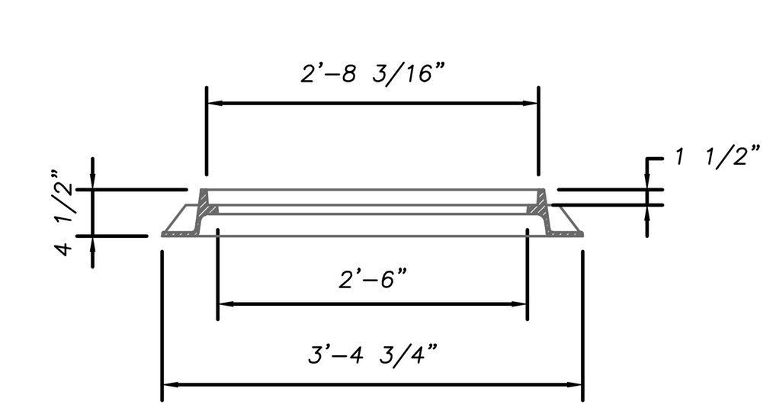


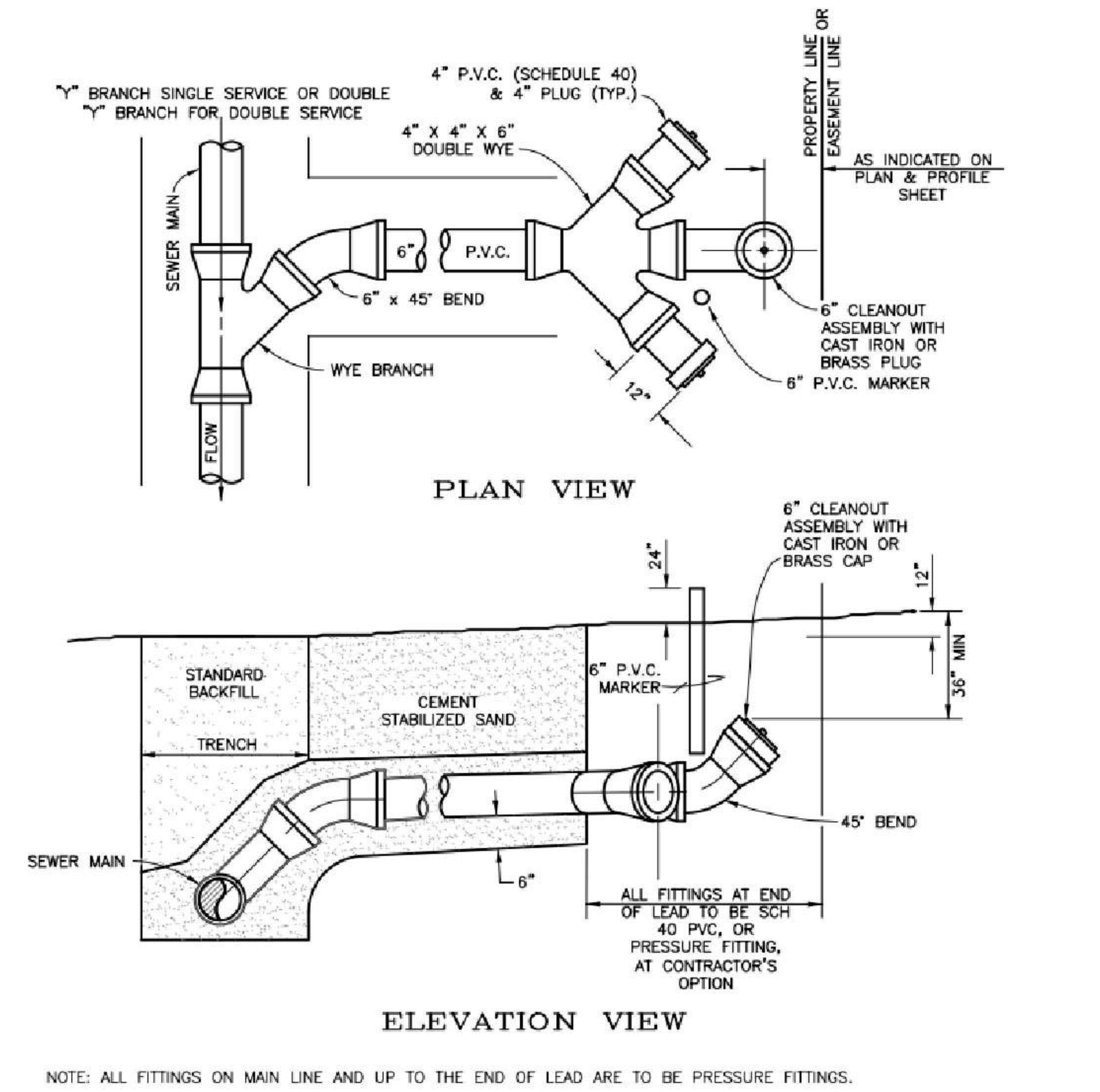
SANITARY SEWER MANHOLE

SANITARY SEWER

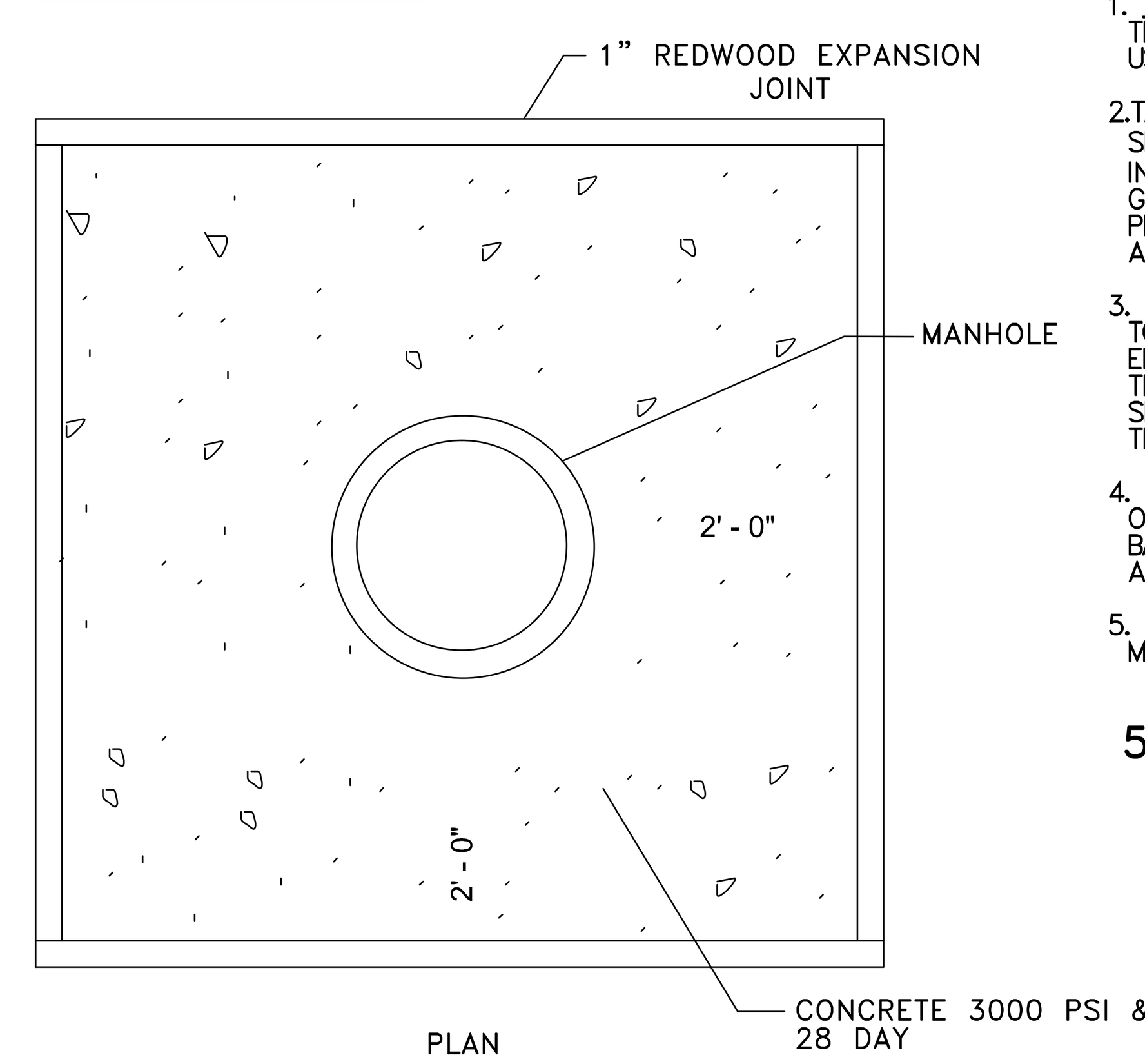








SANITARY SEWER SERVICE CONNECTION



STANDARD MANHOLE BLOCKOUT FOR CONCRETE PAVEMENT

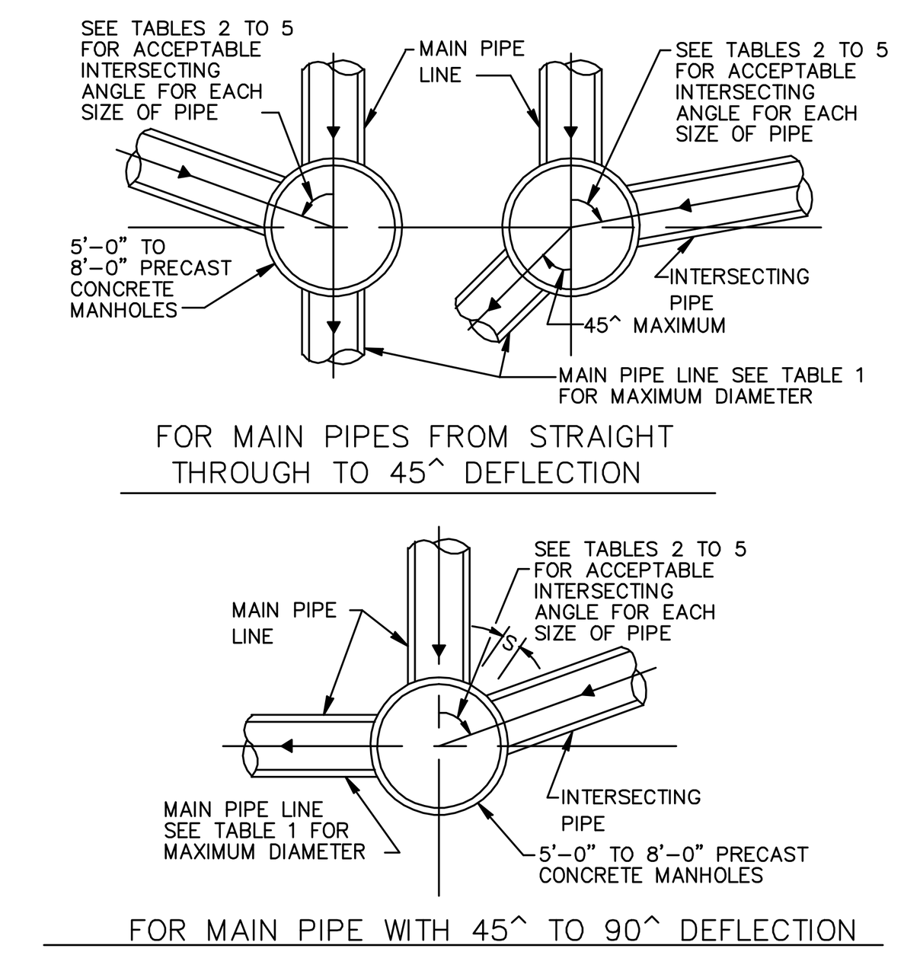


TABLE 1
MAXIMUM MAIN PIPE DIAMETER (I D) IN INCHES

MANHOLE DIAMETER (FT)	STRAIGHT THROUGH TO 45^ DEFLECTION	WITH 90^ DEFLECTION	TABLE TO BE USED
5	36	27	2
6	42	33	3
7	48	36	4
8	60	42	5

NOTES TO SPECIFIER:

1."_" INDICATES THAT A SPECIAL DESIGN OR THE NEXT LARGER MANHOLE SIZE SHALL BE USED.

2.TABLES 2 TO 5 ARE BASED ON A MIN SEPARATION DISTANCE "S" OF 15.5" OR INTERSECTION PIPE OD/2, WHICHEVER IS GREATER, BETWEEN MAIN AND INTERSECTING PIPES ALONG THE MANHOLE INSIDE WALL ARC.

3. PIPE WALL THICKNESS USED IN TABLES 2 TO 5 ARE BASED ON RCP. THE DESIGN ENGINEER MAY CALCULATE TO SEE IF THINNER WALL PIPES CAN MEET THE SEPARATION CRITERIA FOR ANGLES SMALLER THAN THE TABLES ALLOW.

4. LIMITATIONS TO BASE HEIGHT ARE BASER ON RESISTING BUOYANT UPLIFT FORCES BASED ON WATER AT GROUND SURFACE AND A SAFETY FACTOR OF 1.20.

5. A SPECIAL DESIGN IS REQUIRED IF MANHOLE ID IS GREATER THAN 8 FT.

5'-0" TO 8'-0" DIAMETER PRECAST CONCRETE MANHOLE NOTES
N.T.S

NOTES ON USE OF STANDARD DETAIL SAN-015

TABLE 3
MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR 6'-0" DIA MANHOLE

INTERSECTING PIPE ID SIZES (INCHES)	MINIMUM INTERSECTING ANGLE IN DEGREES FOR VARIOUS MAIN PIPE ID SIZES IN INCHES											
	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"	42"
8	40	42	45	49	51	54	57	61	63	67	70	78
10		44	47	50	53	56	59	62	65	69	72	79
12			50	54	56	60	62	66	68	72	75	83
15				57	59	62	65	69	71	75	78	85
18					62	65	68	71	74	78	81	88
21						68	71	74	77	81	84	–
24							74	77	80	84	87	–
27								83	85	89	–	–
30				*					–	–	–	–
33										–	–	–
36											–	–
42												–

TABLE 4
MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR 7'-0" DIA MANHOLE

INTERSECTING PIPE ID SIZES (INCHES)	MINIMUM INTERSECTING ANGLE IN DEGREES FOR VARIOUS MAIN PIPE ID SIZES IN INCHES												
	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"	42"	48"
8	35	36	39	42	44	47	49	52	54	57	59	65	71
10		38	40	43	45	48	50	53	55	59	61	67	73
12			43	46	48	51	53	56	58	61	64	70	76
15				48	50	53	55	58	61	64	66	72	78
18					58	56	58	61	63	66	69	74	81
21						58	60	63	66	69	71	77	83
24							63	66	68	71	74	79	86
27								70	72	76	78	84	90
30				*					78	81	83	89	–
33										86	88	–	–
36											–	–	–
42												–	–
48													–

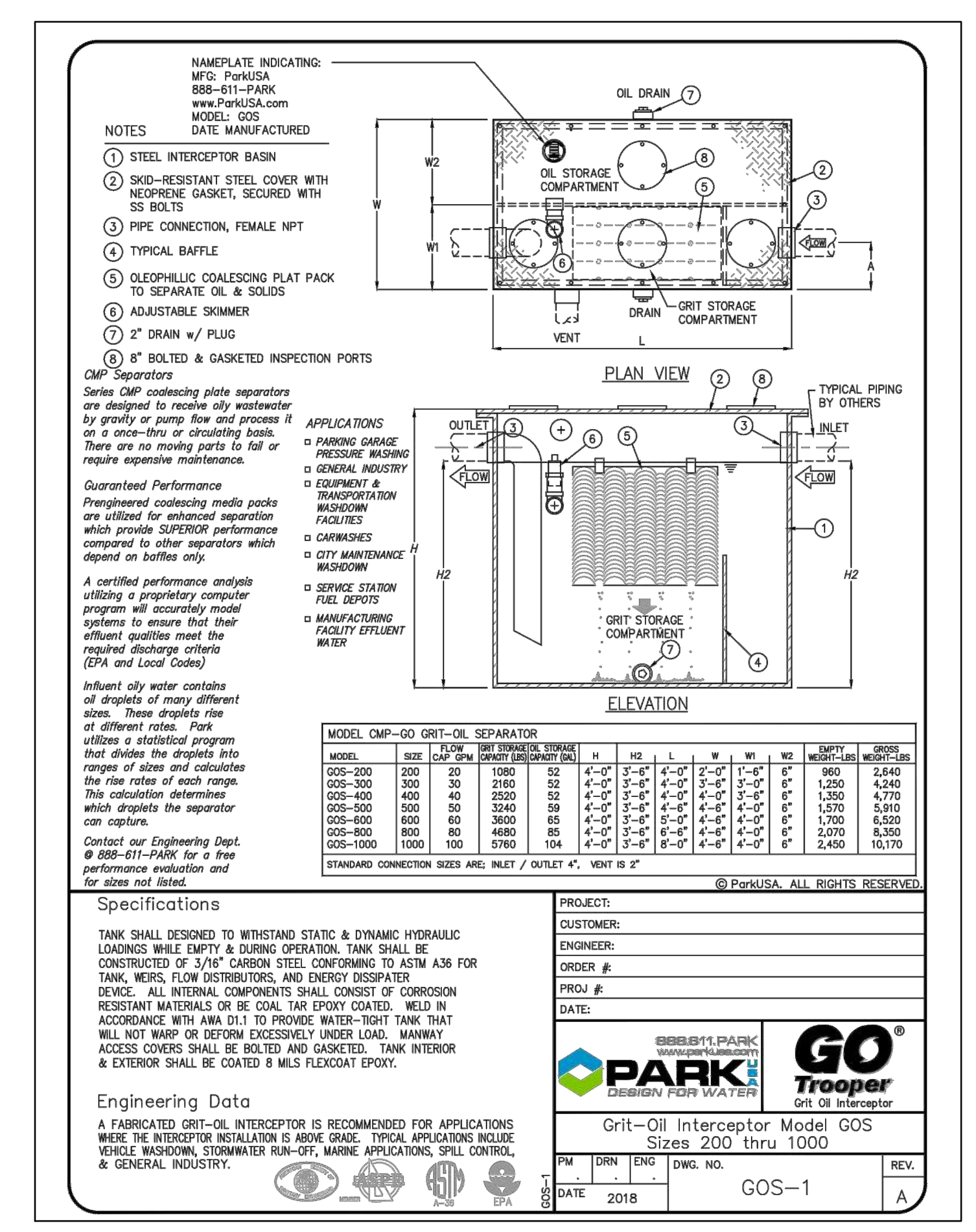
TABLE 5
MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR 8'-0" DIA MANHOLE

INTERSECTING PIPE ID SIZES (INCHES)	MINIMUM INTERSECTING ANGLE IN DEGREES FOR VARIOUS MAIN PIPE ID SIZES IN INCHES														
	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"	42"	48"	54"	60"
8	30	32	34	36	38	41	43	45	47	50	52	56	61	67	74
10		33	35	38	40	42	44	46	48	51	53	58	63	68	77
12			38	40	42	44	46	49	51	53	55	60	65	71	79
15				42	44	47	48	51	53	56	58	62	67	73	81
18					46	49	51	53	55	58	66	64	70	75	83
21						51	53	55	57	60	62	67	72	77	85
24							55	57	59	62	64	69	74	79	89
27								61	63	66	68	73	78	83	–
30									67	70	72	77	82	87	–
33					*					74	76	81	86	–	–
36											81	86	–	–	–
42												–	–	–	–
48													–	–	–
54														–	–
60															–

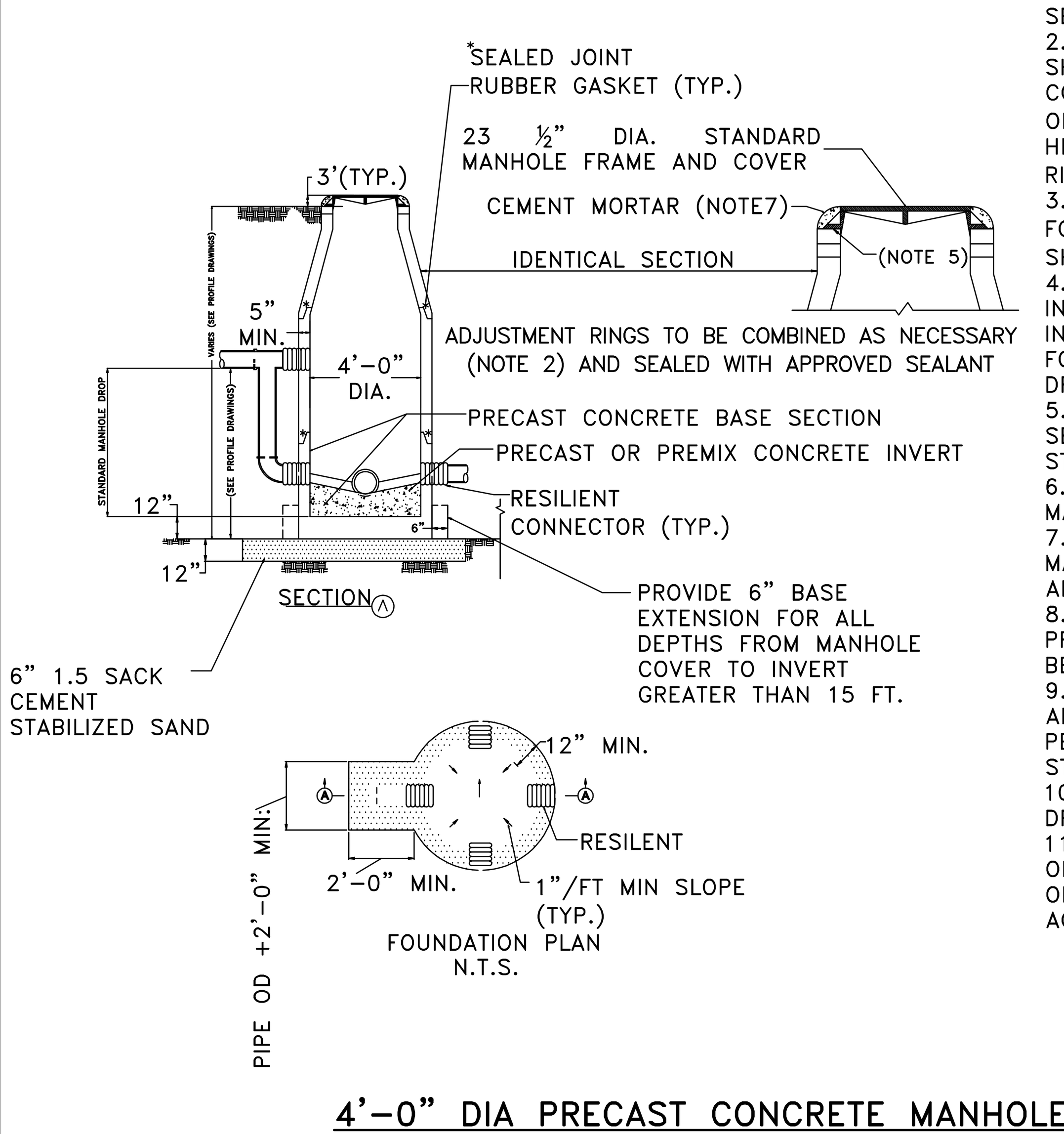
TABLE 2
MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR 5'-0" DIA MANHOLE

INTERSECTING PIPE ID SIZES (INCHES)	MINIMUM INTERSECTING ANGLE IN DEGREES FOR VARIOUS MAIN PIPE ID SIZES IN INCHES										
	8"	10"	12"	15"	18"	21"	24"	27"	30"	33"	36"
8	49	50	54	58	61	66	69	73	77	82	86
10		53	57	61	64	68	71	76	79	84	88
12			61	65	68	72	75	80	83	88	–
15				68	71	75	79	83	87	–	–
18					75	79	82	87	90	–	–
21						83	86	90	–	–	–
24							90	–	–	–	–
27				*				–	–	–	–
30									–	–	–
33										–	–
36											–

*NOT APPLICABLE
(INTERSECTING PIPE GREATER THAN MAIN PIPE)

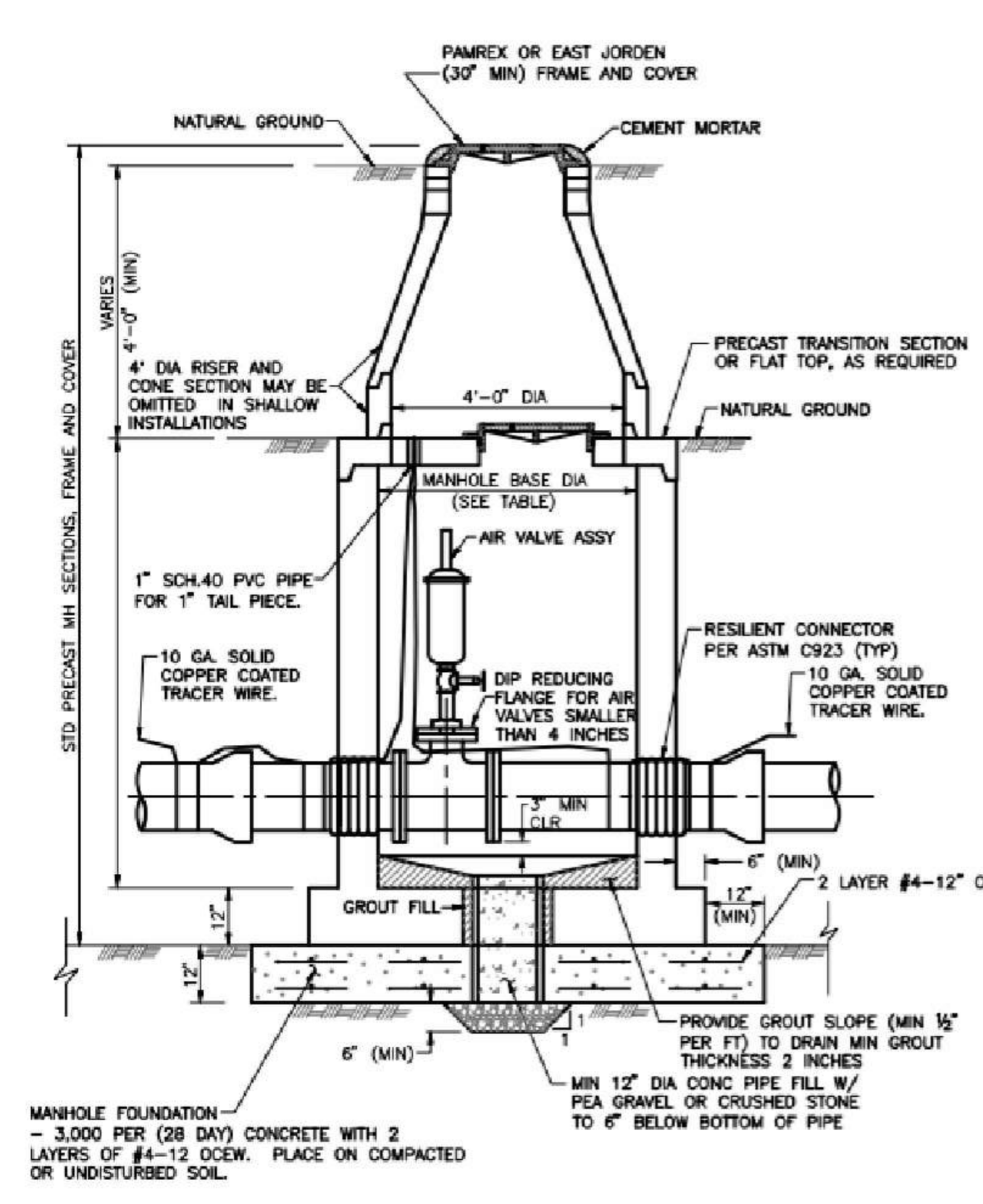


SAND/OIL SEPARATOR



4'-0" DIA PRECAST CONCRETE MANHOLE

NOTES:
1. DEPTH MANHOLE DETERMINES SECTIONS REQUIRED.
2. PRECAST CONCRETE RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST 12". THE TOTAL HEIGHT OF THE ADJUSTMENT RINGS SHALL NOT EXCEED 1'-6".
3. MANHOLE WALL THICKNESS FOR DEPTH EXCEEDING 12'0" SHALL BE 12" THICK.
4. MANHOLE DROP AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR IN PLAN AND PROFILE DRAWING.
5. SEAT MANHOLE FRAME IN SEALANT PER CITY OF LA PORTE STANDARD SPECIFICATION.
6. ECCENTRIC PRECAST CONCRETE MANHOLE MAY BE USE.
7. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS.
8. MIN. REINFORCING IN THE PRECAST CONCRETE BASE SHALL BE #5@ 8 EW.
9. PROVIDED BACKFILL TO MATCH ADJACENT PIPE TRENCH BACKFILL PER CITY OF LA PORTE STANDARD SPECIFICATION.
10. TEE INCLUDED IN PRICE OF DROP.
11. HORSE-SHOE SHAPED OPENINGS OR BREAKOUT OPENINGS SHALL NOT BE ACCEPTED.

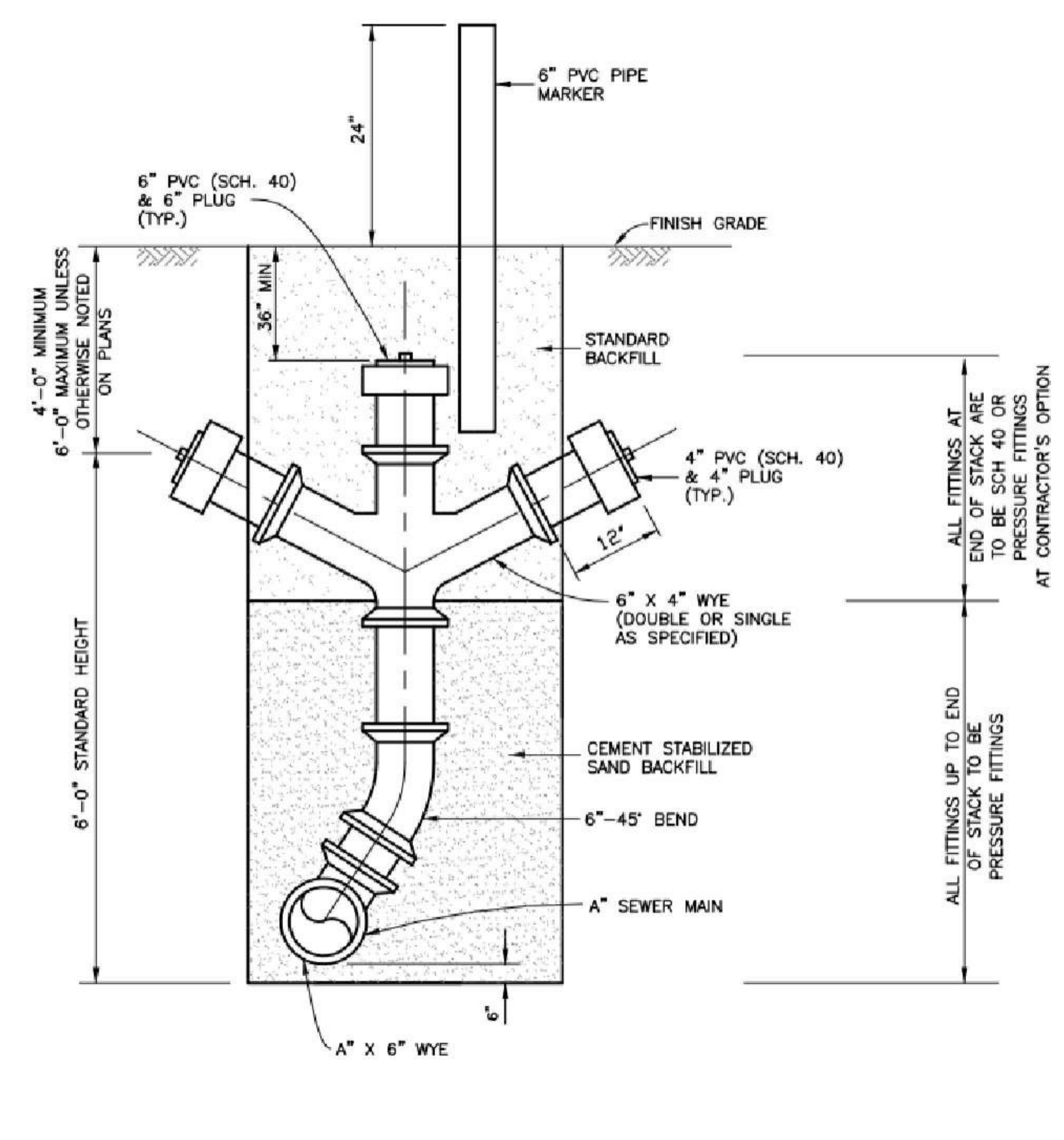


TABLE

MANHOLE BASE DIAMETER (FT)	MAX FORCE MAIN DIAMETER
5	8
6	16
8	36

NOTES:
1. AIR RELEASE VALVE MAY BE 2" APCO 401 SAW OR PRE-APPROVED EQUAL OR AIR AND VACUUM RELEASE VALVE AS NOTED ON PLAN AND PROFILE SHEET.
2. ALL PIPING AND FITTINGS SHALL BE STAINLESS STEEL.
3. PROVIDE LINED DUCTILE IRON PIPE, THICK. CLASS 53, FOR FORCE MAIN WITHIN 12" OF OUTSIDE FACE OF MANHOLE. JOINTS WITHIN MANHOLE MAY BE FLANGED (AS SHOWN) OR GROOVED (PER ASTM 606) WITHIN MANHOLE, WITH 316 STAINLESS STEEL BOLTS.
4. MANHOLE TOP MAY BE CONCENTRIC CONE, ECCENTRIC CONE, OR FLAT TOP WITH ECCENTRIC OPENING. PROVIDE 30" MINIMUM FRAME & COVER. ORIENT ECCENTRIC OPENING OPPOSITE SIDE FROM AIR VALVE.

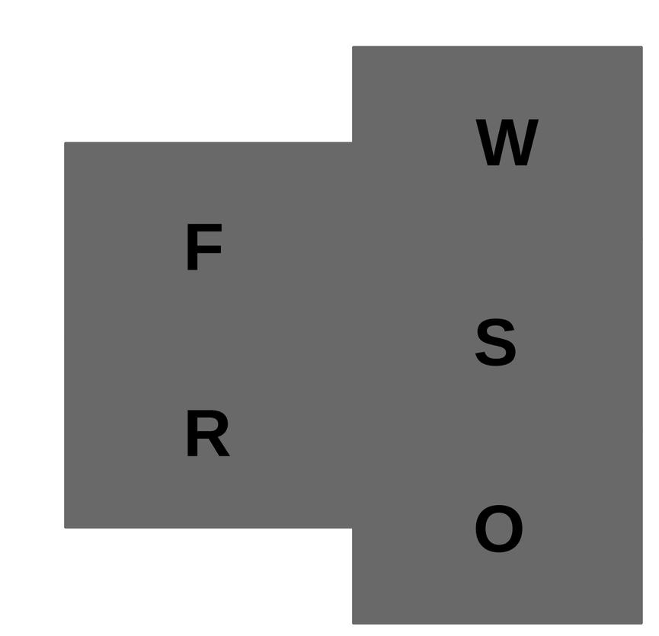
SANITARY SEWER AIR RELEASE OR AIR/ VACCUM RELEASE VALVE MANHOLE



SANITARY SEWER STACK

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

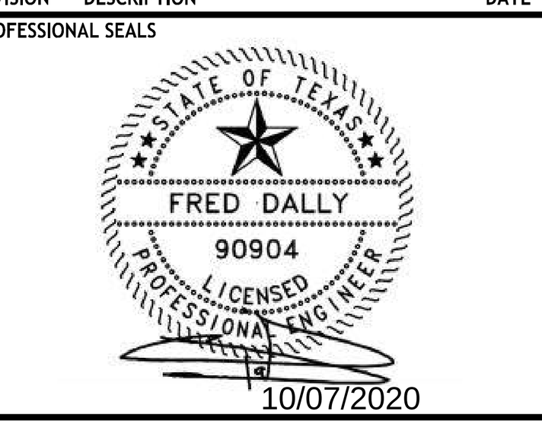
Galveston County
Road & Bridge Department Facilities PH2
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

3	ADDENDUM NO. 3	10-07-2020

REVISION | DESCRIPTION | DATE

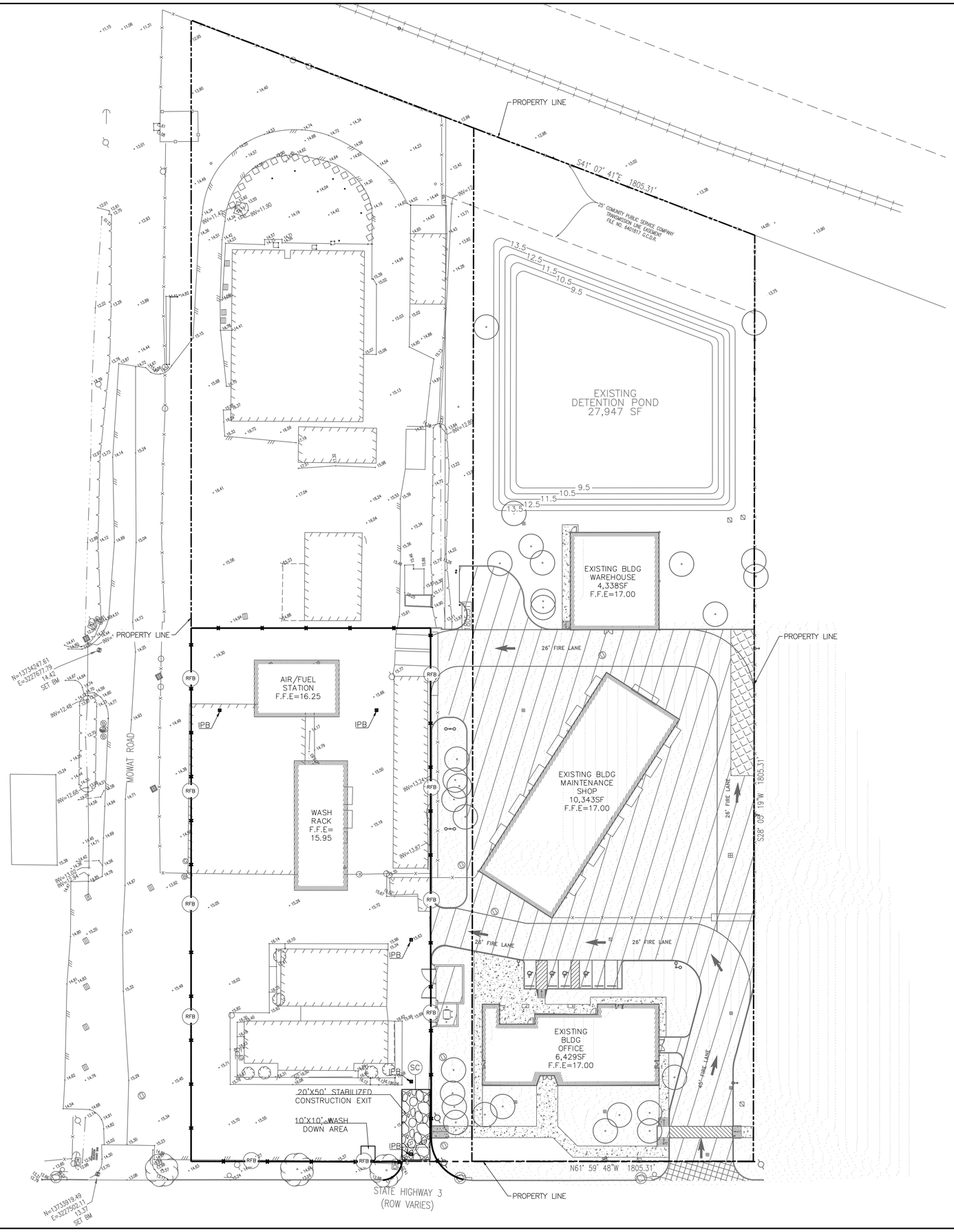
PROFESSIONAL SEALS

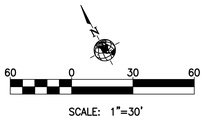


SANITARY SEWER DETAILS

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

C12.0-PH2
SHEET NUMBER





SWPPP LEGEND

RFB — REINFORCED FILTER FABRIC BARRIER AT LEAST 2' BEHIND BACK OF CURB/PAVEMENT

SC — STABILIZED CONSTRUCTION EXIT.

INLET PROTECTION BARRIER (IPB).

WASH DOWN AREA.

SWPPP CONSTRUCTION NOTES

1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATION SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP SILT AND /OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.

2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATED MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.

3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FROM THE EXCAVATED AREA.

4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.

5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

- 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.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND/ OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING.
SLOPES 4:1 OR STEPPER SHALL BE REPLACED BY CLOCK SODDING.

CONCRETE TRUCK/EQUIPMENT WASH OUT

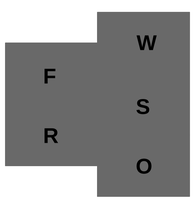
1. CONTRACTOR(S) SHALL NOT WASH OUT CONCRETE TRUCKS OR EQUIPMENT INTO STREET DEAD ENDS, RIGHT-OF-WAYS, GUTTERS, STORM SEWER INLETS, WATERWAYS, CREEKS OR ANY LOCATION WHERE THE MATERIALS COULD REACH THE STORM SEWER (MS4) SYSTEM. ROCKED CUL-DE-SACS ARE NOT APPROVED WASH OUT AREAS. ALL DEPOSITED MATERIALS SHALL BE REMOVED AND PROPERLY DISPOSED OF AT THE COMPLETION OF WORK.

2. WASH OUT CONCRETE TRUCKS AND/OR EQUIPMENT ONLY IN A DESIGNATED, CONFINED WASHOUT AREA WHERE THE WATER WILL FLOW INTO A TEMPORARY PIT IN A DIRT AREA OR ONTO STOCKPILES OF AGGREGATE BASE OR SAND. THIS AREA MUST BE AN IDENTIFIED LOCATION.

3. COLLECT AND RETURN SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE TO A STOCKPILE OR DISPOSE OF THE WASTE IN A TRASH CONTAINER.

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH2

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

	REVISION	DESCRIPTION	DATE
2	ADDENDUM NO. 3		10-07-2020

PROFESSIONAL SEALS

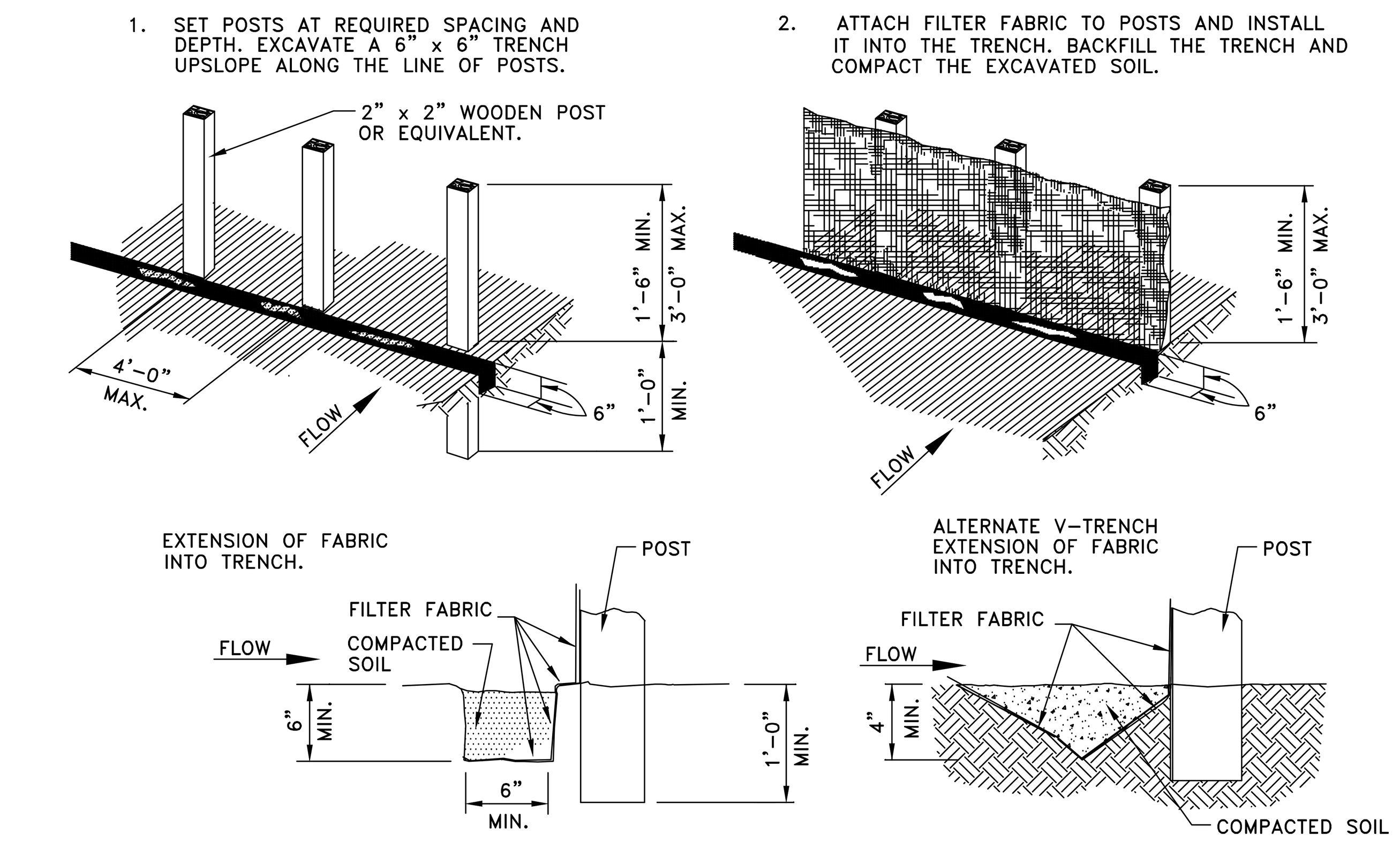
STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

SWPPP PLAN

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

C13.0-PH2
SHEET NUMBER

FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM



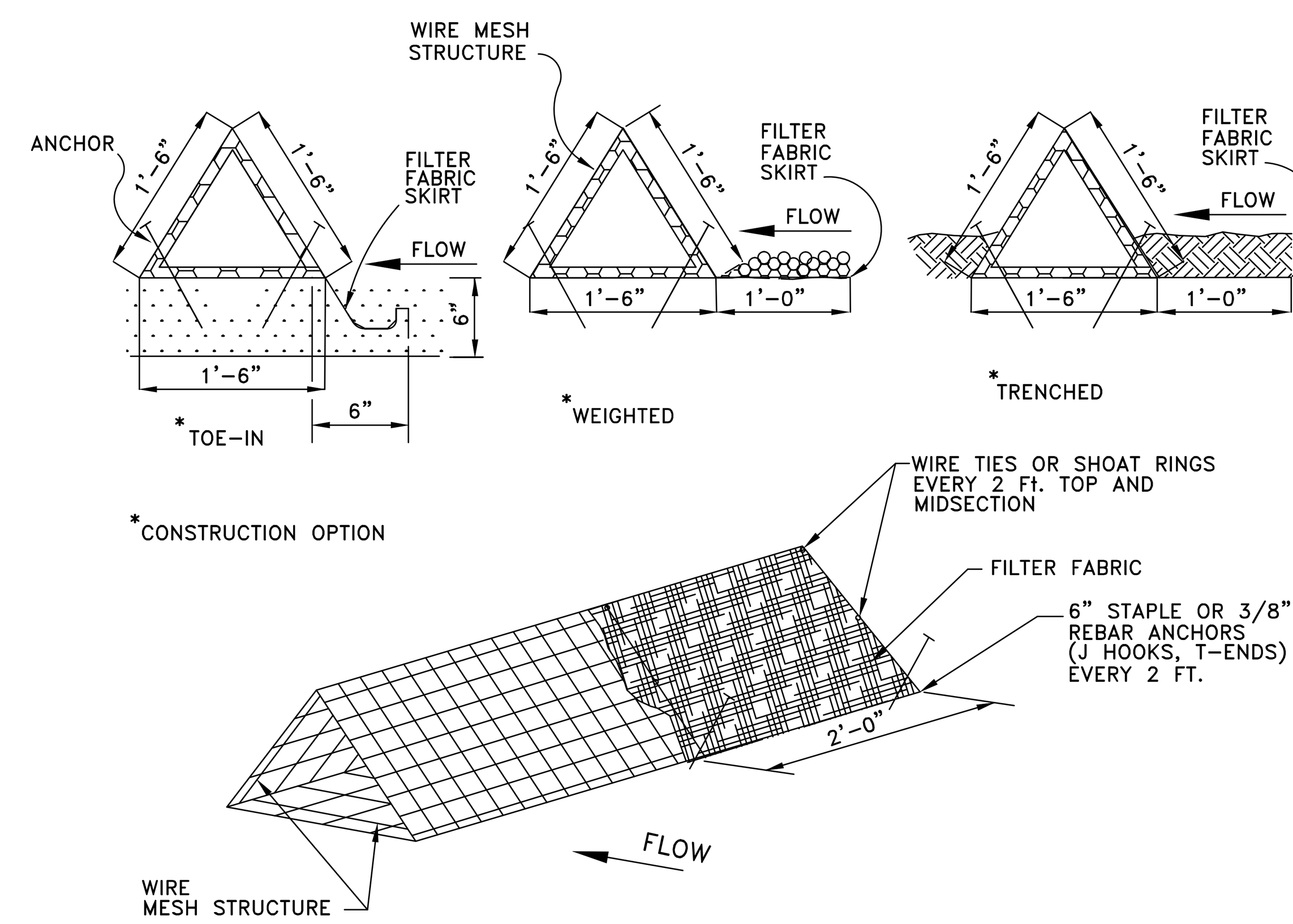
GENERAL NOTES:

1. SET POSTS AT 4-FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM.
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE.

FILTER FABRIC FENCE

×═ FF ═×

SYMBOL



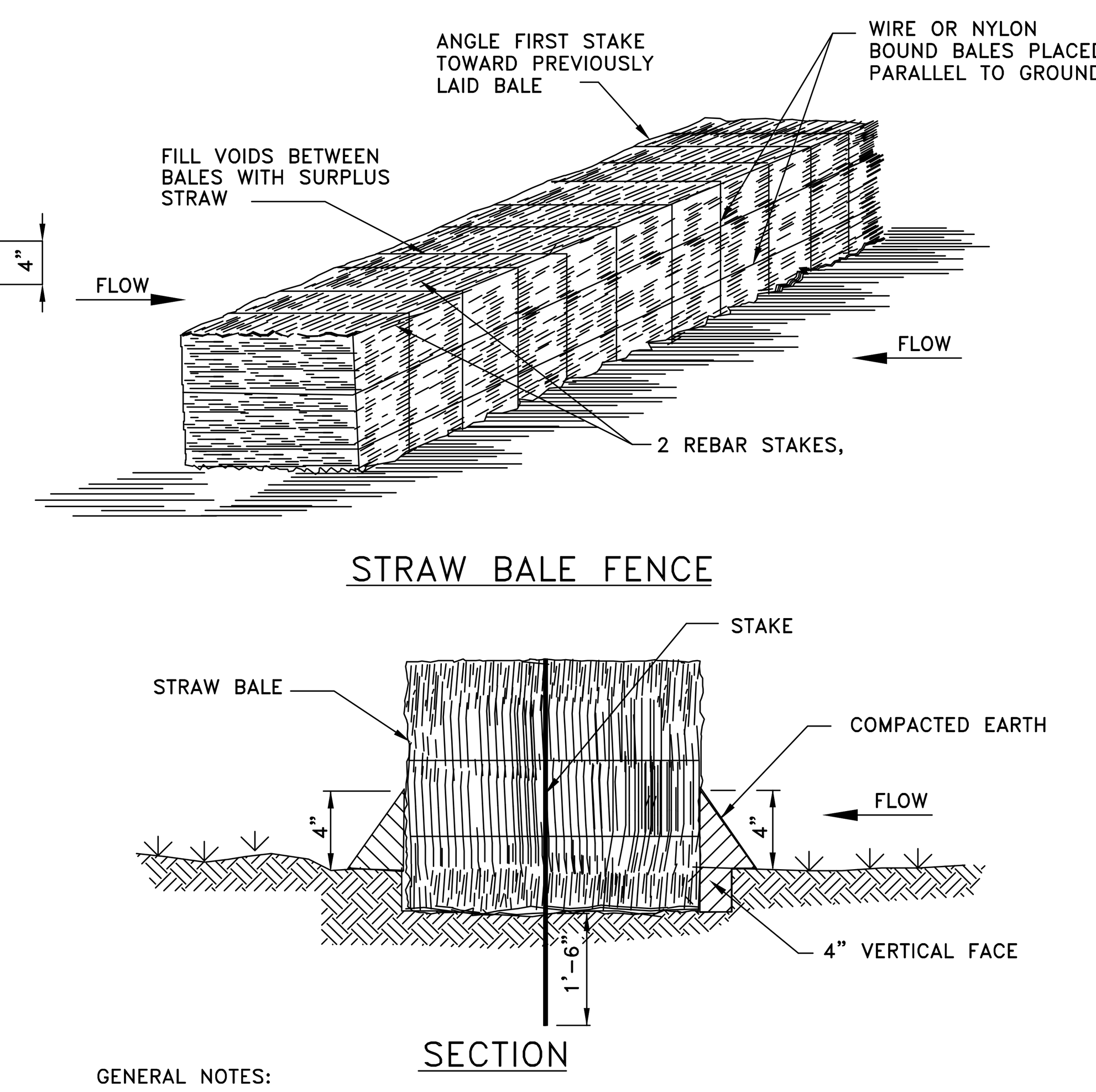
GENERAL NOTES:

1. PLACE BARRIER IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BARRIER.
2. USING ONE CONTINUOUS SECTION OF FILTER FABRIC, WRAP FABRIC AROUND WIRE MESH AND EXTEND FABRIC TO FORM SKIRT ON THE UPSTREAM SIDE.
3. WEIGHT SKIRT WITH A CONTINUOUS LAYER OF 3-INCH TO 5-INCH OPEN GRADED ROCK, OR TOE IN SKIRT WITH SIX INCHES WITH MECHANICALLY COMPACTED MATERIAL.
4. SECURELY ANCHOR BARRIER AND SKIRT IN PLACE USING 6-INCH WIRE STAPLES ON 2-FOOT CENTERS ON BOTH EDGES, OR STAKE USING 18-INCH BY 3/8 INCH REBARS (T-ENDS, J-HOOKS).
5. FILTER FABRIC SHALL BE LAPPED OVER ENDS 6 INCHES TO COVER SEGMENT JOINTS. FASTEN JOINTS WITH GALVANIZED SHOAT RINGS OR EQUIVALENT.
6. THE BARRIER STRUCTURE SHALL BE WELDED WIRE MESH, 18 INCHES ON EACH SIDE.

TRIANGULAR FILTER FABRIC FENCE

×═ TFF ═×

SYMBOL



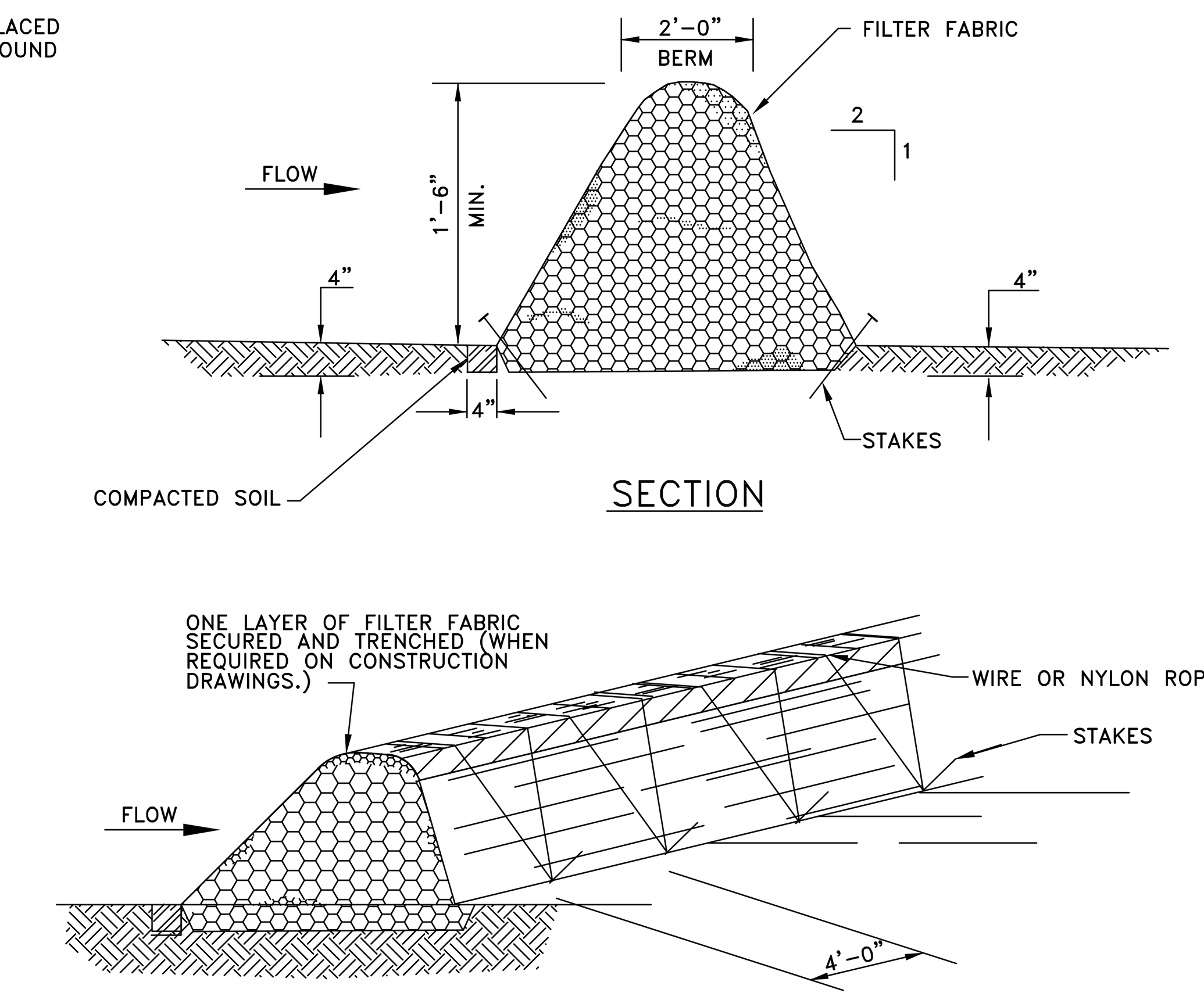
GENERAL NOTES:

1. LIMIT USE TO ONSITE SWALES FOR PURPOSES OF LOW FLOW VELOCITY DISSIPATION FOR EROSION CONTROL. USE STRAW BALE FENCES TO TREAT OVERLAND FLOW ONLY. DO NOT USE STRAW BALE FENCES TO TREAT FLOW IN CHANNELS.
2. PLACE BALES IN A ROW WITH ENDS TIGHTLY ABUTTING ADJACENT BALES. FILL THE VOIDS BETWEEN BALES WITH SURPLUS STRAW. PLACE BALES WITH BINDING PARALLEL TO GROUND SURFACE.
3. IMBED EACH BALE AT LEAST 4 INCHES IN THE SOIL.
4. SECURELY ANCHOR BALES IN PLACE BY REBAR STAKES. DRIVE STAKES THROUGH THE BALES AND AT LEAST 18 INCHES INTO THE GROUND. ANGLE THE STAKE IN EACH BALE TOWARD THE PREVIOUS BALE TO FORCE THE BALES TOGETHER.
5. BIND BALES WITH WIRE OR NYLON ROPE TIED ACROSS THE STRAW BALES.
6. REPLACE WITH NEW STRAW BALE FENCE EVERY TWO MONTHS.
7. WATTLES STAKED INTO THE GROUND ARE A PREFERRED SUBSTITUTE FOR STRAW BALE FENCES.

STRAW BALE FENCE

×═ SBF ═×

SYMBOL



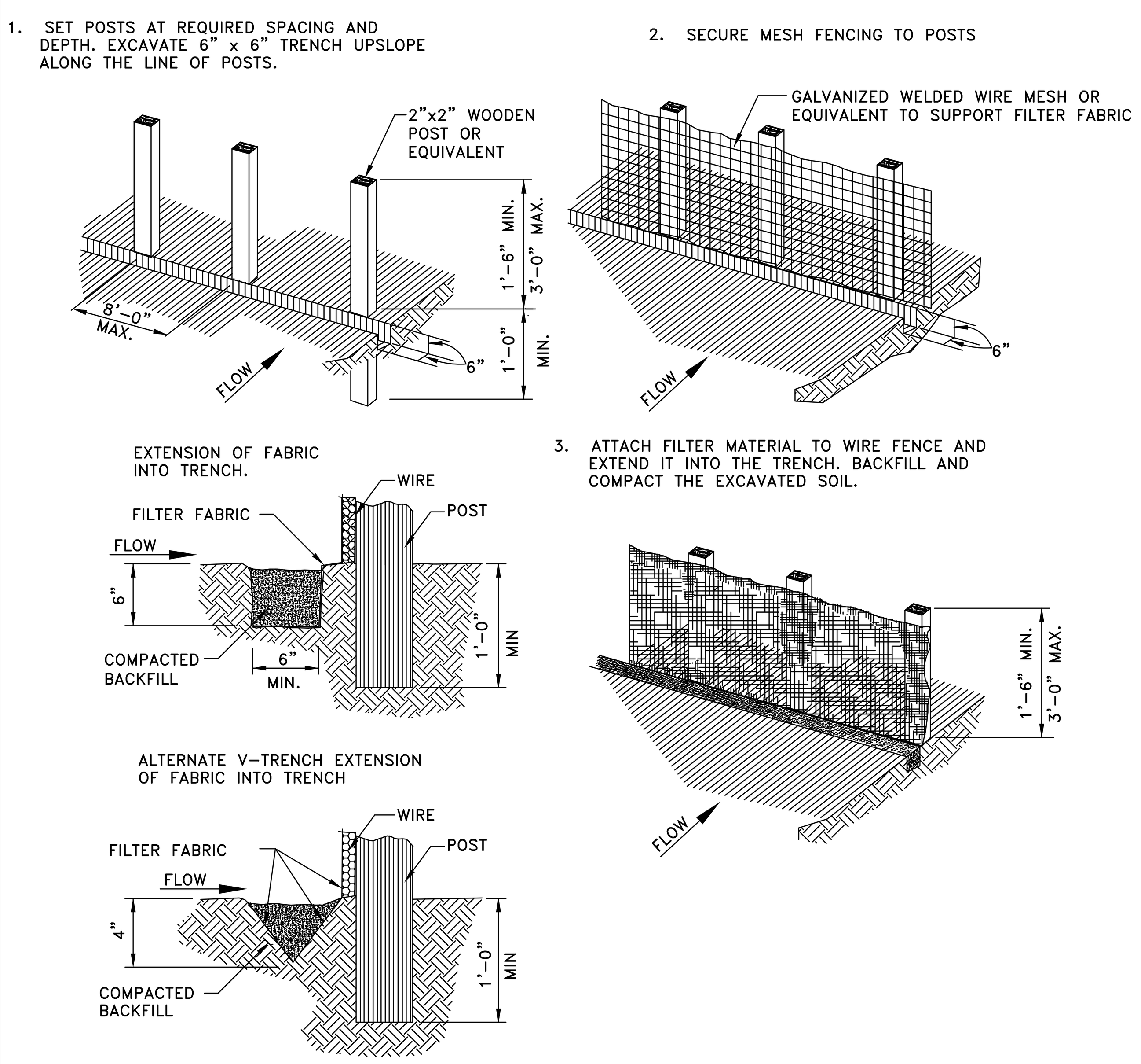
GENERAL NOTES:

1. LIMIT USE TO ONSITE SWALES FOR PURPOSES OF LOW FLOW VELOCITY DISSIPATION FOR EROSION CONTROL. USE BRUSH BERMS TO TREAT OVERLAND FLOW ONLY. DO NOT USE BRUSH BERMS TO TREAT FLOW IN CHANNELS.
2. PLACE WOODY BRUSH AND BRANCHES HAVING A DIAMETER OF LESS THAN 2 INCHES WITH A 6-INCH OVERLAP. AVOID INCORPORATION OF ANNUAL WEEDS AND SOIL INTO BRUSH BERM.
3. MINIMUM HEIGHT OF THE BRUSH BERM IS 18 INCHES, MEASURED FROM THE TOP OF THE EXISTING GROUND AT THE UPSLOPE TOE TO THE TOP OF THE BERM.
4. HAND PLACE BRUSH BERMS ALONG CONTOUR LINES. MACHINE PLACEMENT OF BRUSH BERMS IS NOT PERMITTED.
5. IMBED BRUSH BERM AT LEAST 4 INCHES INTO THE SOIL.
6. ANCHOR BRUSH BERMS USING WIRE OR NYLON ROPE ACROSS THE BERM WITH A MINIMUM TENSION OF 50 POUNDS.
7. SECURELY TIE ROPE TO 18-INCH REBAR STAKES DRIVEN INTO THE GROUND ON 4-FOOT CENTERS ON BOTH SIDES OF THE BERM.
8. PERFORM MAINTENANCE AS NEEDED.

BRUSH BERM

×═ BB ═×

SYMBOL



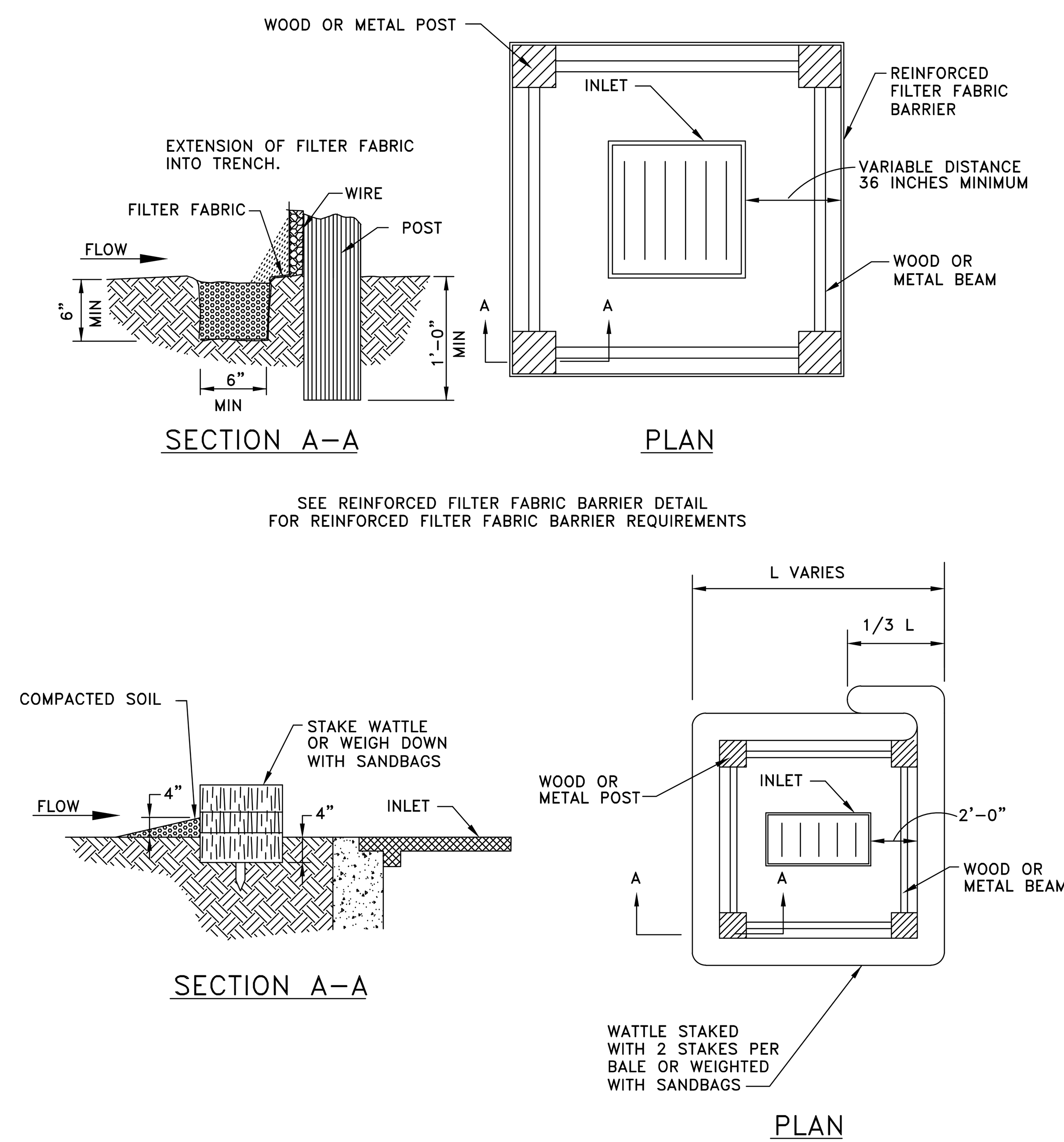
GENERAL NOTES:

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 IN DEPTH.

REINFORCED FILTER FABRIC BARRIER

×═ RFB ═ ×

SYMBOL

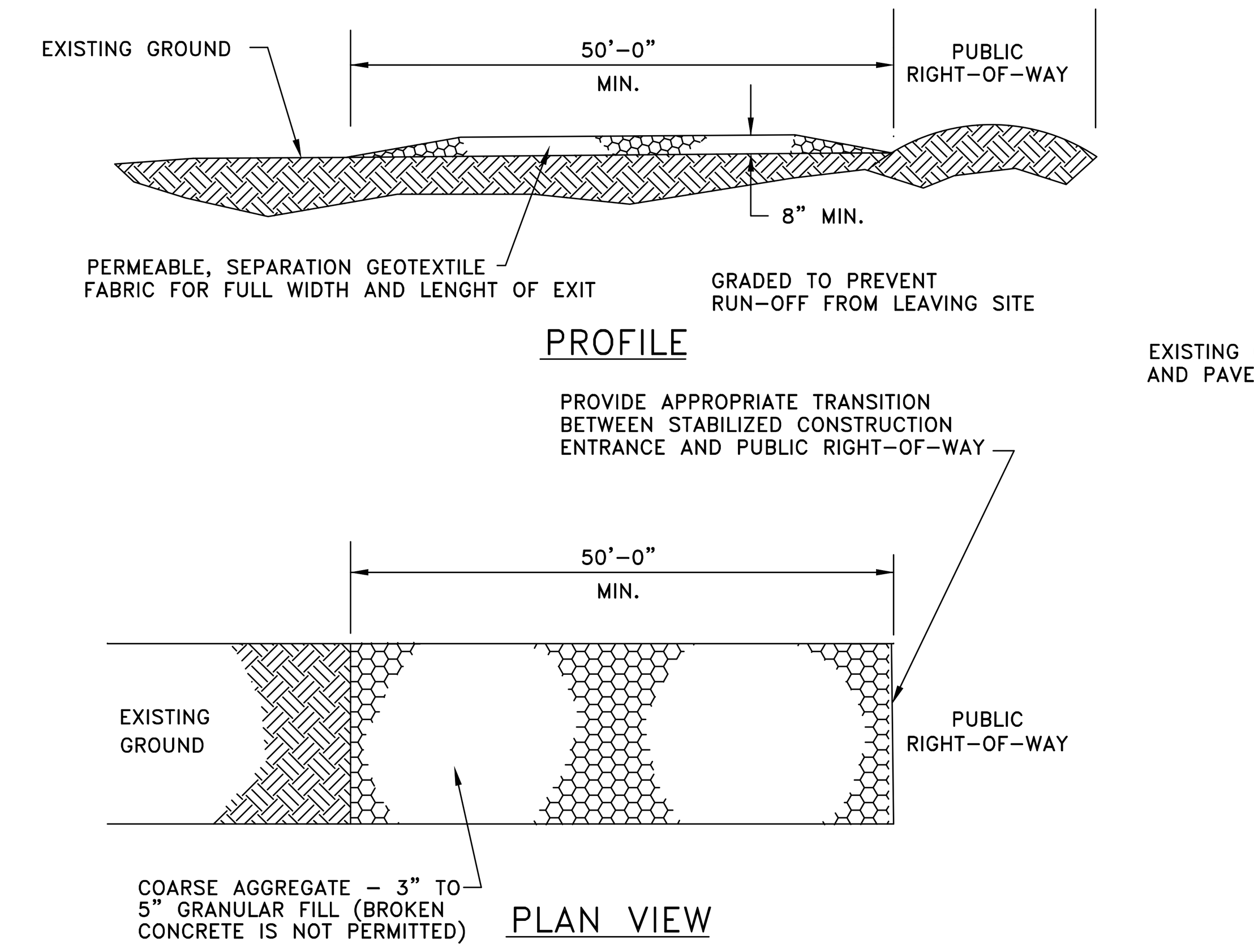


NOTE:
TYPICALLY STRAW BALES ARE NOT RECOMMENDED FOR INLET PROTECTION BARRIERS.

INLET PROTECTION BARRIERS FOR STAGE I INLETS

IPB

SYMBOL



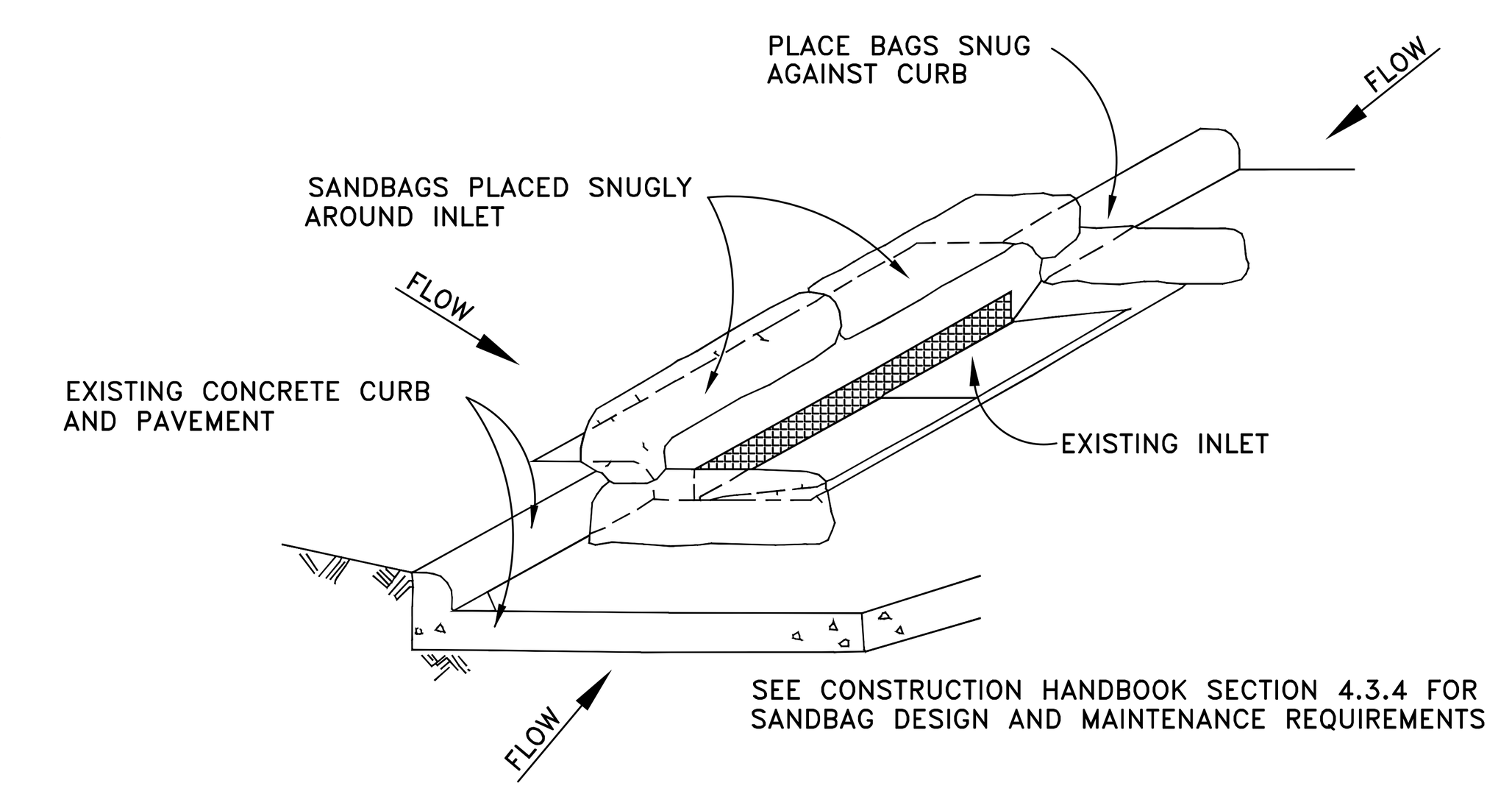
GENERAL NOTES:

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 INCLUDE
   -CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.
   -WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 6 INCHES.
   -STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.

STABILIZED CONSTRUCTION ACCESS

SC

SYMBOL



GENERAL NOTES:

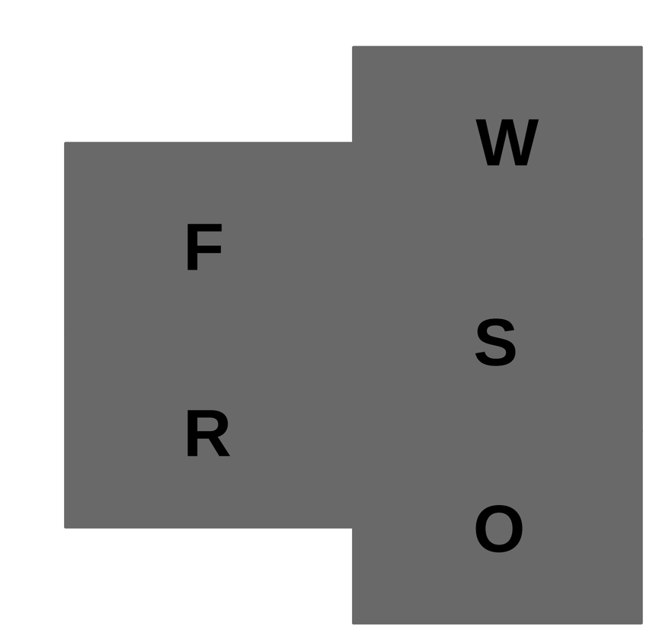
1. BAGS OR WATTLES CAN BE USED FOR THIS APPLICATION.
2. PROVIDE WOVEN OR UNWOVEN GEOTEXTILE FILTER FABRIC FOR BAGS.
3. PROVIDE COARSE SAND AND AGGREGATE MIX FOR FILL MATERIAL FOR BAGS. USE ONLY PARTICLES CONSISTING OF CLEAN, HARD, DURABLE MATERIALS FREE FROM ADHERENT COATINGS, SALT, ALKALI, DIRT, CLAY, LOAM, SHALE, SOFT OR FLAKY MATERIALS, OR ORGANIC AND INJURIOUS MATTER.
4. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.

INLET PROTECTION BARRIERS FOR STAGE II INLETS

IPB

SYMBOL

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005



KEY PLAN (NOT TO SCALE)

Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

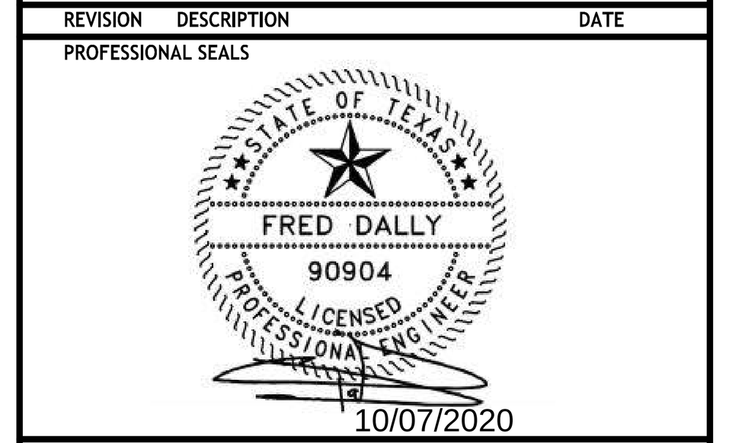
Galveston County Road & Bridge Department Facilities PH2

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS



SWPPP DETAILS

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

C14.0-PH2

SHEET NUMBER

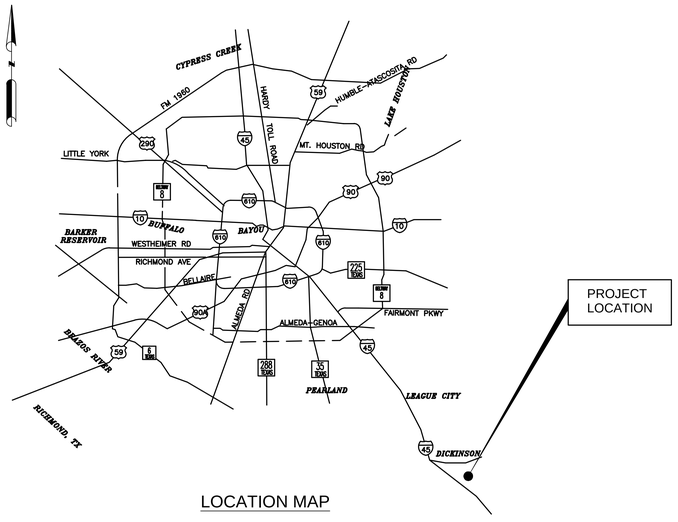
FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM

GALVESTON COUNTY
ROAD & BRIDGE DEPARTMENT FACILITIES - PHASE 3

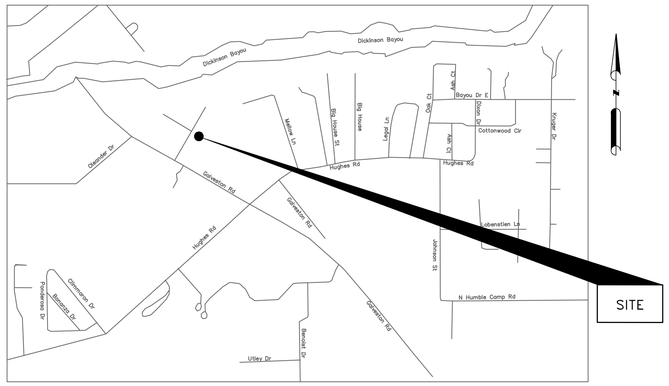
5115 TX- 3
DICKINSON, TX 77539

ISSUE FOR PERMIT

△3 ADDENDUM NO.3 10/07/2020



LOCATION MAP



VICINITY MAP
N.T.S.

KEY MAP: 190-A

CIVIL ENGINEER:

DALLY+ASSOCIATES, INC.
TBPE FIRM REGISTRATION #3426

9800 RICHMOND AVENUE, SUITE 460
HOUSTON, TX 77042
(713) 337 8881
www.dallyassociates.com

Project Manager: Jose Diego Monroy, CFM
Project Engineer: Fred Dally, P.E.

OCTOBER 07, 2020

CIVIL SHEET INDEX

SHEET #	SHEET NAME
C1.0-PH3	COVER SHEET
C2.0-PH3	TOPOGRAPHIC SURVEY
C3.0-PH3	DEMOLITION PLAN
C4.0-PH3	PAVING PLAN
C5.0-PH3	LAYOUT PLAN
C6.0-PH3	GRADING PLAN
C7.0-PH3	GENERAL NOTES
C8.0-PH3	PAVEMENT DETAILS
C9.0-PH3	SWPP PLAN
C10.0-PH3	SWPPP DETAILS

△3 △3 △3

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

NO.	DATE	ADDENDUM NO.3 Revisions	FD App.
3	10/07/20		

GALVESTON COUNTY
ROAD & BRIDGE
DEPARTMENT FACILITIES PH3
5115 TX-3
DICKINSON, TX 77539

COVER SHEET

TBPE FIRM REGISTRATION #3426

DRAWING SCALE

DESIGNED BY: JDM
CHECKED BY: JDM
DATE:10/07/2020

△3 C1.0-PH3

STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

GENERAL NOTES:

1. According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for Galveston County, Texas, Map No. 485470095 C dated May 2, 1983 This properties lies within Zone "C" of the flood insurance rate map and does not lies within a special flood hazard area.

   This flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can and will occur and flood heights may be increased by man-made or natural causes. The location of the flood zone was determined by scaling from said FEMA map. The actual location, as determined by elevation contours, may differ. Intertek Surveying & Services assumes no liability as to the accuracy of the location of the flood zone limits. This flood statement shall not create liability on the part of KM Surveying, LLC.

2. This survey has been prepared for the sole purpose of the transaction described in the above mentioned Commitment for Title Insurance and the parties listed thereon. This survey is not to be used for any subsequent transactions.

3. This survey does not determine the location of wetlands, fault lines, toxic waste, cemeteries, landfills, dumps or any other environmental issues.

4. Intertek Surveying & Services has not been provided with construction plans showing the location of underground utilities. Underground utilities may exist which are not shown hereon.

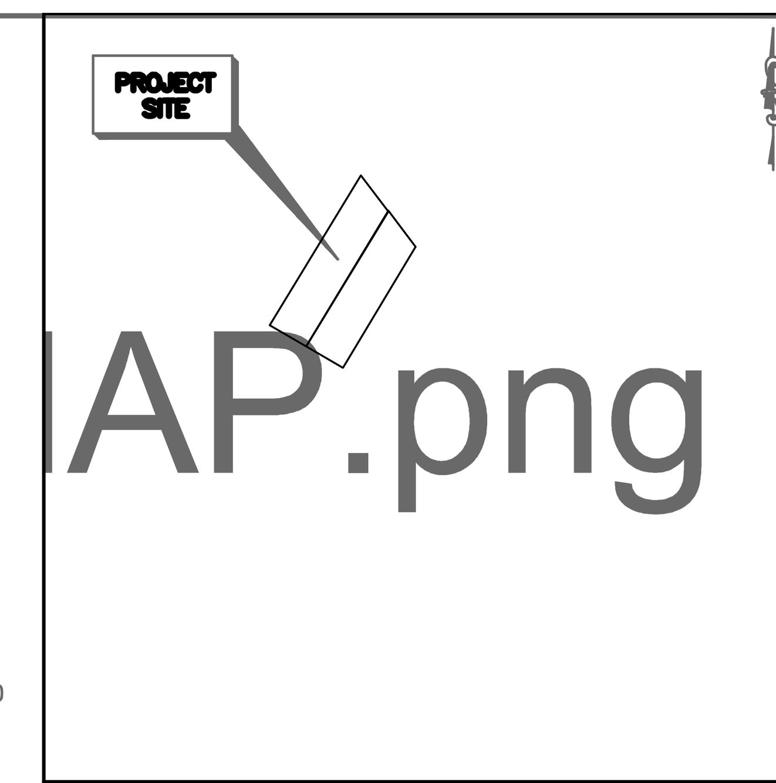
5. Readily visible improvements/utilities were located with this survey, no subsurface probing, excavation or exploration was performed Intertek Surveying & Services.

6. This exhibit has been prepared without benefits of current title report. There may be easements, setbacks, and other matters of record not shown hereon, the surveyor has not abstract the property.

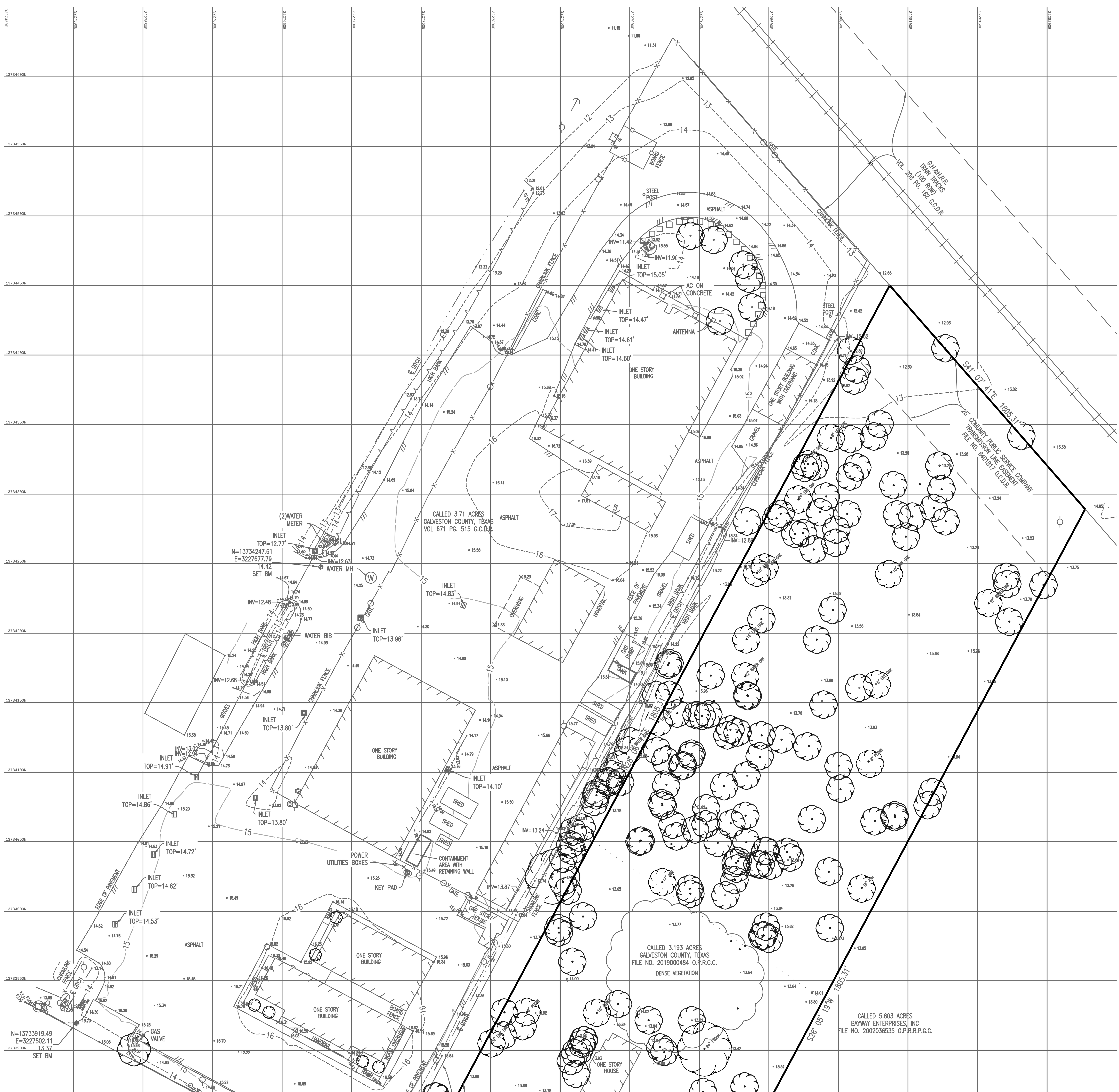
7. Reference is made to a Survey of a 3.193-acre (139,093 sq. ft.) Tract situated in the Alexander Farmer League, A-11 and The W.K Wilson Survey, A-208 Galveston County, Texas. dated 12/12/2018. Prepared by Weisser Engineering Co. Job. No. GD404 and in the field book 3510.

LEGEND:
- BOLLARD
- BENCHMARK
- INLET
- SMALL INLET
- GAS MARKER
- GAS METER
- GAS VALVE
- GUY/ANCHOR
- STORM MANHOLE
- SIGN
- POWER POLE
- WATER MH
- WATER METER
- DECIDUOUS TREE

0 20 40 80



Vicinity Map
N.T.S.



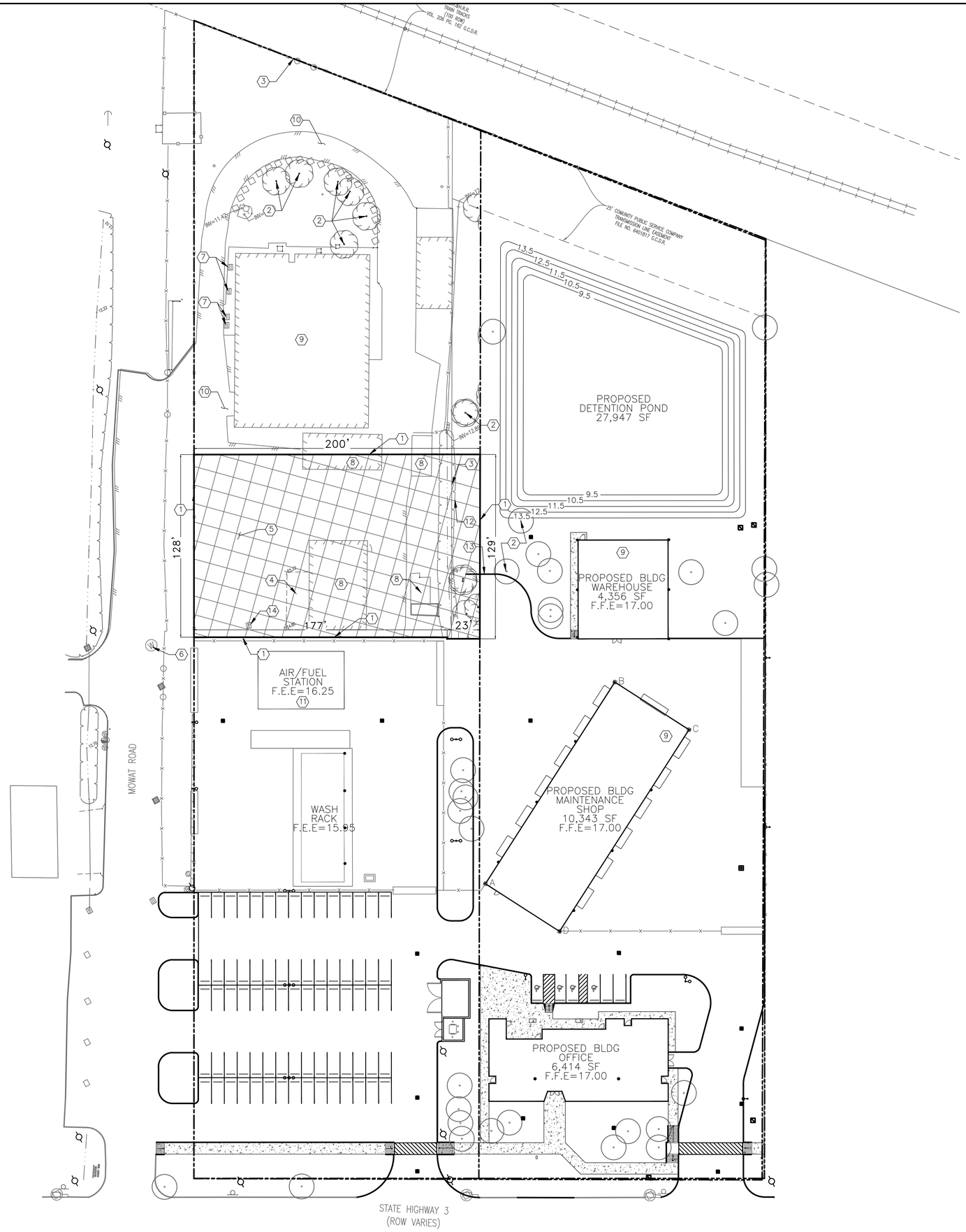
REV	DESCRIPTION	BY	DATE
3			
2			
1			

intertek
16441 SPACE CENTER BLVD, HOUSTON, TX 77058
(281) 990-9977
TBPLS FIRM# XXXX
www.intertek.com

TOPOGRAPHIC SURVEY
TRACT OF LAND SITUATED IN THE ALEXANDER FARMER LEAGUE, A-11 & THE W.K. WILSON SURVEY, A-205 GALVESTPN COUNTY, TEXAS

DATE: November 8, 2019	SURVEYED: MR DRAWN: MR	JOB NO.: 19113 SCALE: 1"= 40'
DWG.: psi - iss - 19113 topo 07172019 ...dwg	CHECKED: KM	SHEET NO.: 1 OF 1

C2.0-PH3



30 0 30 60

SCALE: 1"=30'

DEMOLITION NOTES TO CONTRACTOR

1. ALL ITEMS DESIGNATED TO BE REMOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
2. THE CONTRACTOR AND OWNER SHALL COORDINATE WITH CENTERPOINT FOR TERMINATION OF POWER AND GAS SERVICES TO THE SITE OR NEW SERVICES. THIS WORK WILL BE PROVIDED BY CENTERPOINT AND SHALL BE SCHEDULE AS ONE OF THE FIRST ITEMS OF BUSINESS.
3. THE CONTRACTOR SHALL BE PROVIDE AN APPROVED TRAFFIC CONTROL PLAN TO PERFORM ANY WORK PROPER SIGNAGE.
4. WHEN EXISTING SIDEWALK IS CLOSED FOR CONSTRUCTION, CONTRACTOR SHALL BARRICADE THAT AREA AND PROVIDE SAFE ALTERNATE PATH FOR PEDESTRIAN WITH PROPER SIGNAGE.
5. ALL TRAFFIC SIGNAGE WITHIN THE ROW SHALL BE PROTECTED INPLACE AT ALL TIMES. ANY DAMAGE TO THEN SHALL BE REPAIRED IMMEDIATELY. DURING THE CONSTRUCTION, SAFE OPERATION OF PEDESTRIAN OR VEHICULAR TRAFFIC, CONTRACTOR SHALL PROVIDE A CERTIFIED FLAGGER OR PEACE OFFICER UNTIL THAT SIGN IS RESTORED TO EXISTING CONDITION.
6. CONTRACTOR SHALL REPAIR ANY ITEMS DAMAGE DURING CONSTRUCTION TO ITS EXISTING CONDITION.
7. PRIOR TO ANY DEMOLITION WORK, THE CONTRACTOR SHALL LOCATED AS WELL CAPPED. ALL UTILITIES THAT ARE SHOWN SHALL BE LOCATED AS WELL AND CAPPED. ALL UTILITIES NOT SHOW SHALL BE LOCATED AS WELL CAPPED. UTILITIES THAT ARE SHOWN ON PLANS ARE APPROXIMATE LOCATION ONLY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE ON SITE DURING ALL CONSTRUCTION ACTIVITIES.
9. THE CONTRACTOR SHALL ENTER & EXIT THE SITE THROUGH EXISTING DRIVEWAY.
10. CAUTION. THERE ARE OVERHEAD POWERLINES WITH IN THE WORK AREA. CONTRACTOR SHALL FOLLOW CITY, STATE AND FEDERAL GUIDELINES WHEN WORKING AROUND EXISTING POWER LINES.

DEMOLITION KEY NOTES

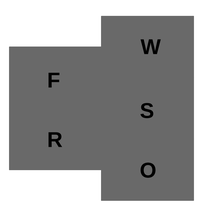
1. LIMITS OF DEMOLITION.
2. EXISTING TREE TO REMAIN. PROTECT IN–PLACE.
3. EXISTING CHAINLINK FENCE TO BE REMOVED.
4. EXISTING CONCRETE PAVEMENT TO BE REMOVED.
5. EXISTING ASPHALT PAVEMENT TO BE REMOVED.
6. EXISTING SANITAY SEWER MANHOLE TO REMAIN. PROTECT IN–PLACE.
7. EXISTING STORM DRAIN INLET TO REMAIN. PROTECT IN–PLACE.
8. EXISTING BUILDING TO BE REMOVED.
9. EXISTING BUILDING TO REMAIN.
10. EXISTING ASPHALT PAVEMENT TO REMAIN. PROTECT IN–PLACE.
11. EXISTING AIR/FUEL STATION TO REMAIN. PROTECT IN–PLACE.
12. EXISTING DITCH TO BE REMOVED.
13. EXISTING CURB TO REMAIN. PROTECT IN–PLACE.
14. EXISTING STORM DRAIN INLET TO BE REMOVED.

DEMOLITION HATCH LEGEND

LIMITS OF DEMOLITION.

ONE– CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223–4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1–800–545–6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City /
San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH3

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

1	ADDENDUM NO. 3	10-07-2020

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

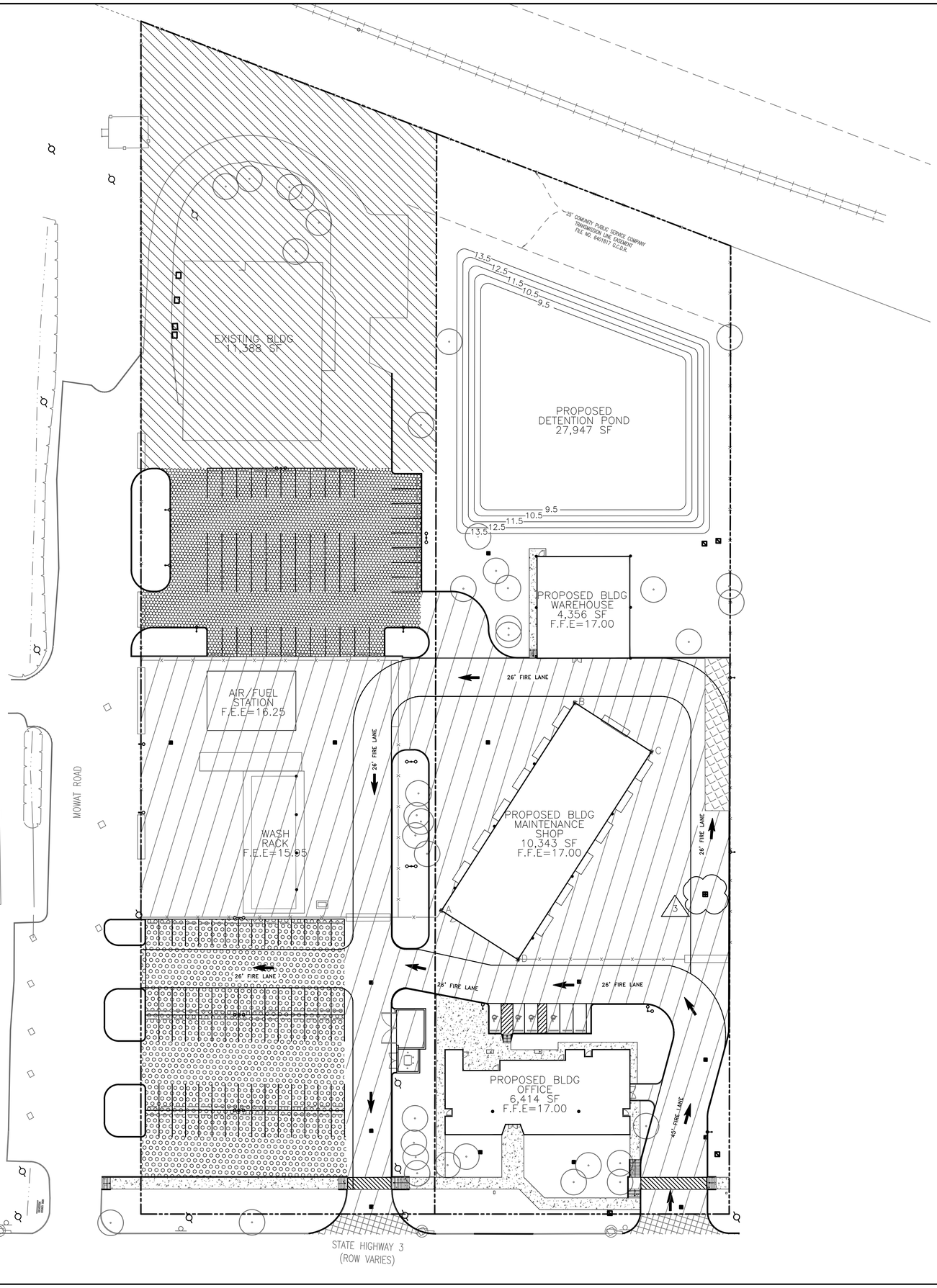
STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

DEMOLITION PLAN

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_R&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

C3.0-PH3
3
SHEET NUMBER

FILE PATH
FILE NAME File Path
DATE STAMP 6/26/2008 2:02:06 PM



30 0 30 60

SCALE: 1"=30'

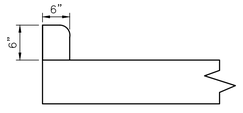
HATCH LEGEND:

- PROPOSED TRUE-GRID PRO PLUS APPROX: 21,221 SQFT
- EXISITNG 4.5" THICK CONCRETE FOR SIDEWALK APPROX: 7,123 SQFT
  RE: C-9.0 PAVEMENT DETAILS
- EXISTING 6" THICK CONCRETE FOR DRIVEWAY APPROX: 1,444 SQFT
  RE: C-9.0 PAVEMENT DETAILS
- 6" TALL CURB REF. SECTION
- EXISTING TRUE-GRID PRO PLUS APPROX: 23,865 SQFT
- 6" THICK CONCRETE PAVING APPROX: 30,938 SQFT
  RE: C-9.0 PAVEMENT DETAILS
- EXISTING PAVEMENT APPROX: 46,728 SQFT
- 7" THICK CONCRETE PAVING APPROX: 1,699 SQFT
  RE: C-9.0 PAVEMENT DETAILS

LEGEND:

- PROPOSED SAWCUTTING JOINT
- PROPOSED EXPANSION JOINT
- AREA NOT IN SCOPE

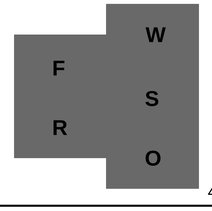
*NOTE: SEE PAVING DETAILS FOR JOINT SECTIONS



6" CONCRETE CURB APPROX: 546 LF

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City /
San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH3

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

1	ADDENDUM NO.3	10-07-2020

REVISION DESCRIPTION DATE

PROFESSIONAL SEALS

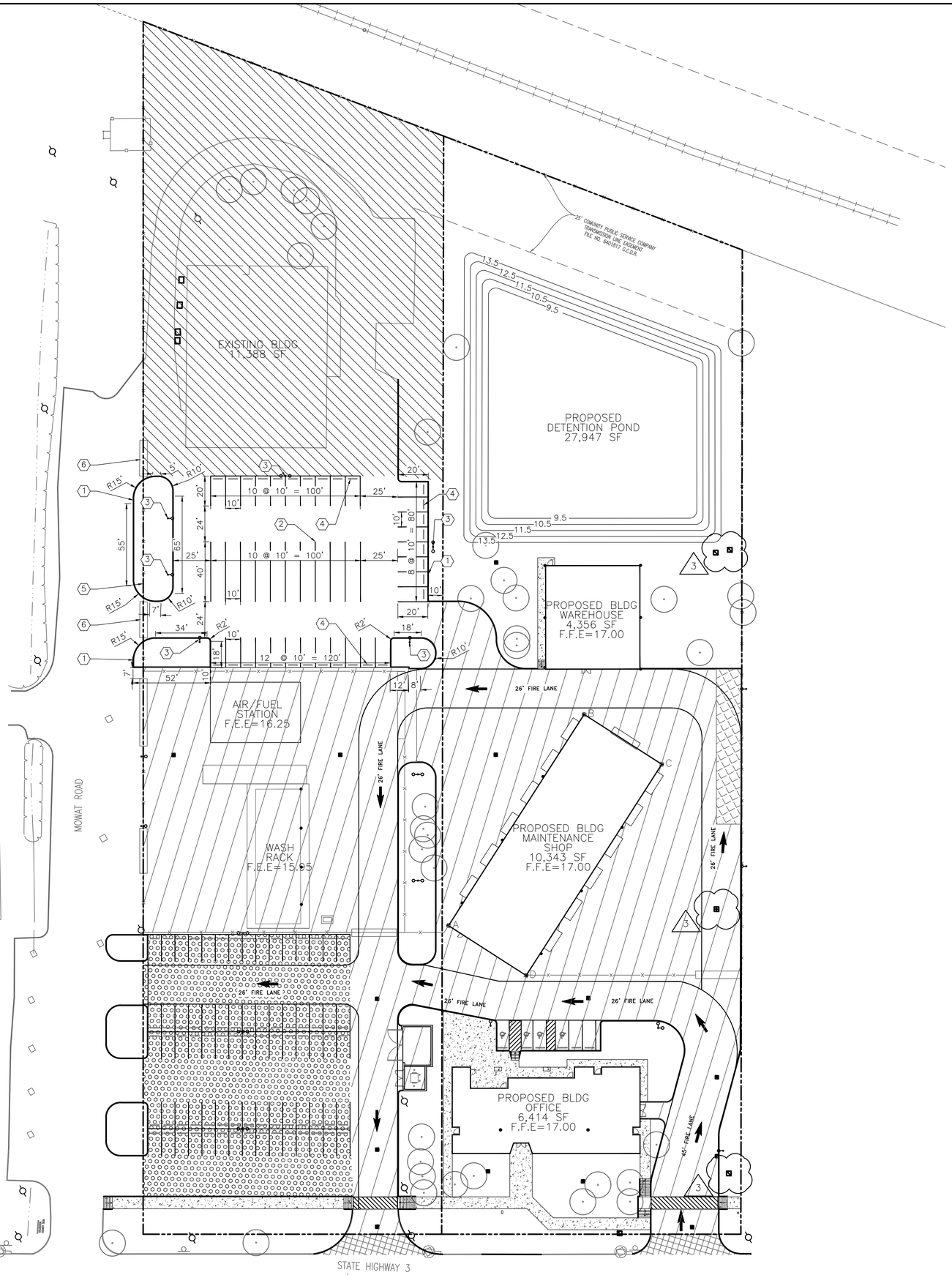
STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

PAVING PLAN

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_R&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

C4.0-PH3
3
SHEET NUMBER

FILE PATH
FILE PATH: File Path
DATE STAMP: 6/26/2008 2:02:08 PM



30 0 30 60

SCALE: 1"=30'

SITE LAYOUT NOTES

1. THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA PROVIDED BY OTHERS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION THAT ARE TO REMAIN IN SERVICE. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
2. ALL DIMENSIONS ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO FACE OF BUILDING. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
4. REFER TO ARCHITECTURAL PLANS FOR ALL STAIRS, HANDICAPPED RAMP AND RETAINING WALL DETAILS.
5. REFER TO LANDSCAPE ARCHITECT PLANS FOR DETAILS AND DIMENSIONS OF LANDSCAPE AND HARDSCAPE AREAS.

LAYOUT KEY NOTES

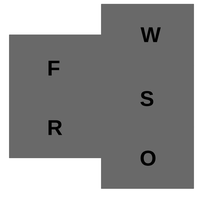
1. PROPOSED 6" CONCRETE CURB PER PAVEMENT DETAILS.
2. PROPOSED 4" YELLOW STRIPING PER PAVEMENT DETAILS TYP.
3. PROPOSED LIGHT POLE; REFER TO MEP DRAWINGS FOR LAYOUT AND SPECIFICATIONS.
4. PROPOSED WHEEL STOP.
5. PROPOSED CHAIN – LINK FENCE
6. PROPOSED GATE BY OTHERS.

HATCH LEGEND

AREA NOT IN SCOPE

ONE– CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223–4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1–800–545–6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City /
San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH3

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

3	ADDENDUM NO.3	10-07-2020

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS

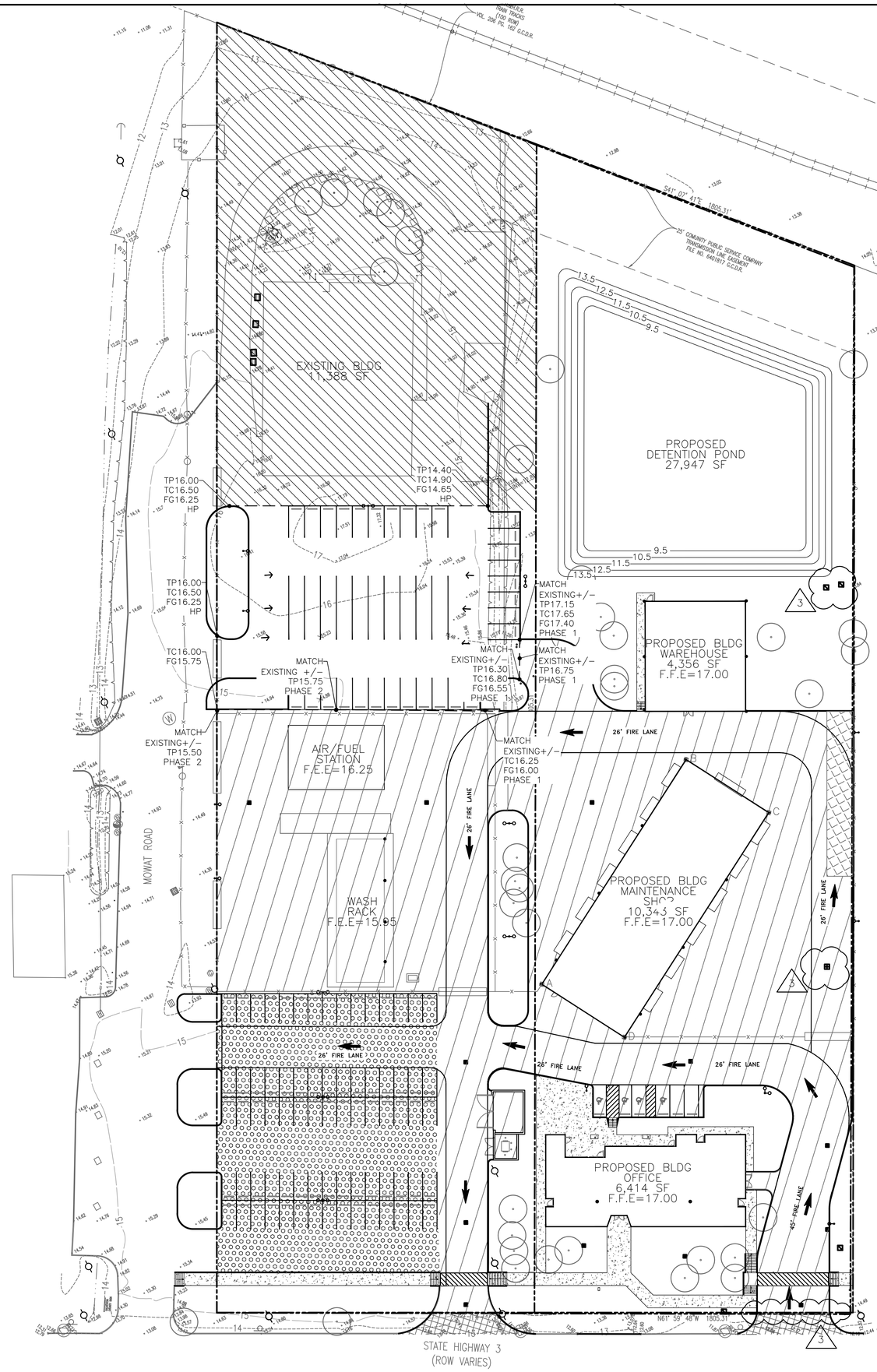
STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

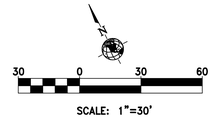
LAYOUT PLAN

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

C5.0-PH3
3
SHEET NUMBER

FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM





GRADING PLAN NOTES

1. REFER TO GEOTECHNICAL REPORT FOR ALL COMPACTION AND MOISTURE CONTENT REQUIREMENTS.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ECT. WITHIN THE AREA OF CONSTRUCTION THAT ARE TO REMAIN. THEY MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PAVING AND GRADING. AT NO ADDITIONAL COST TO THE OWNER.
3.
4. ALL INLETS AND MANHOLES SHALL MEET THE REQUIREMENTS OF THE LOCAL GOVERNING AGENCY.
5. SIDEWALKS SHALL HAVE A SLOPE NO GRATER THAN 5% AND A CROSS SLOPE NOT GRATER THAN 2%, UNLESS OTHERWISE.

ABBREVIATIONS

TW TOP OF WALL

TP TOP OF PAVEMENT ELEVATION

TC TOP OF CURB ELEVATION

TG TOP OF GRATE ELEVATION (STORM DRAIN INLET)

FG FINISHED GRADE ELEVATION

FFE FINISHED FLOOR ELEVATION

BFE BASE FLOOD ELEVATION

FL FLOWLINE ELEVATION

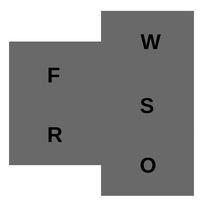
HATCH LEGEND

CONSTRUCT 5" CONCRETE SIDEWALK OVER COMPACTED SUB-GRADE PER GEOTECHNICAL. ENGINEER'S RECOMMENDATIONS

AREA NOT IN SCOPE

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities PH3

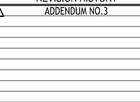
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

3	ADDENDUM NO.3	10-07-2020

REVISION	DESCRIPTION	DATE

PROFESSIONAL SEALS



10/07/2020

GRADING PLAN

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_R&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

C6.0-PH3

3

SHEET NUMBER

FILE PATH: File Path
XREF NAME:
DATE STAMP: 6/26/2008 2:02:08 PM

A. GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SECURITY TO PROTECT HIS OWN PROPERTY, EQUIPMENT AND WORK IN PROGRESS.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING OF STREETS CAUSED BY ASSOCIATED CONSTRUCTION AT CLOSE OF EACH WORK DAY.
4. PAVED SURFACES SHALL BE PROTECTED FROM DAMAGE BY TRACKED EQUIPMENT.
5. CONTRACTOR WILL PAY ALL COST TO REPLACE IRON RODS OR OTHER LAND BOUNDARY MARKERS DISTURBED DURING CONSTRUCTION. A REGISTERED LAND SURVEYOR WILL BE USED TO RESET DISTURBED BOUNDARY MARKERS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AN UPDATE REDLINED "RECORD" SET OF CONSTRUCTION DRAWINGS ON SITE FOR INSPECTION BY THE ENGINEER.
7. CONTRACTOR SHALL PROVIDE ORANGE FENCING OR BARRICADES TO PROTECT PEDESTRIANS FROM ENTERING WORK AREAS.
8. CONTRACTOR MUST PROVIDE FENCING AROUND OPEN EXCAVATIONS AREA AT ALL TIMES.
9. REFER TO THE SWPPP GENERAL NOTES FOR PROPER MEASURES AND CONTROLS.

B. PAVEMENT

1. EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGE OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO ORIGINAL CONDITION OR BETTER, IN ACCORDANCE WITH THE GOVERNMENT AGENCY HAVING JURISDICTION.
2. THE SUBGRADE SHALL BE BROUGHT TO THE LINES AND GRADES AS SHOWN ON THE DRAWINGS.
3. WHENEVER UNSUITABLE MATERIAL IS ENCOUNTERED AND CANNOT BE HANDLED BY THE EXCAVATION OR EMBANKMENT REQUIREMENTS, THEN THE UNSUITABLE MATERIAL SHALL BE EXCAVATED TO A DEPTH DEEMED SUFFICIENT BY THE ENGINEER AND THE EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF THE JOB SITE. THE EXCAVATED AREA SHALL BE FILLED WITH SELECT FILL PER STANDARDS OF THE GOVERNMENT AGENCY HAVING JURISDICTION.
4. SURPLUS EXCAVATED EARTHEN MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND DISPOSED OF OFF-SITE. INCLUDE COST OF REMOVAL AND DISPOSAL IN OTHER ITEMS OF WHICH THIS WORK IS A COMPONENT PART. NO SEPARATE PAY. THE MATERIAL MUST BE DISPOSED OF IN A SAFE AND LEGAL MANNER.
5. EXISTING WATER VALVES AND MANHOLES SHALL BE ADJUSTED, AS NECESSARY TO MATCH TOP OF PROPOSED PAVEMENT ELEVATION.

C. SANITARY SEWER, STORM SEWER & DRAINAGE

1. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
2. ANY CURB DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER OR OWNING AUTHORITY.
3. CONTRACTOR'S ACTIVITIES SHALL HAVE NO EFFECT TO FLOWS TO AND FROM OFF SITE AREAS EXISTING SHEET DRAINAGE SHALL NOT BE IMPEDED BY PROPOSED CONSTRUCTION.
4. WHERE MANHOLES ARE LOCATED WITHIN PAVED AREAS, CONTRACTOR SHALL SET RIM ELEVATIONS TO MATCH FINISHED GRADE ELEVATIONS. OUTSIDE OF PAVED AREAS, SET MANHOLE RIMS 3 INCHES (MINIMUM) TO 6 INCHES (MAXIMUM) ABOVE FINISHED GRADE. ADD SLOPE FILL AROUND MANHOLES, SLOPED AWAY AND DOWN FROM MANHOLE RING.
5. NO DUMPING OF EXCAVATION MATERIALS WILL BE ALLOWED ON PAVED AREAS. CONTRACTOR MUST DETERMINE A LOCATION TO TEMPORARILY STOCKPILE STORM SEWER EXCAVATION TO BE USED AS BACK FILL, AS APPROVED.
6. THE CONTRACTOR SHALL USE HDPE PLASTIC PIPE OR RCP PIPE AS SHOWN ON PLANS.

D. STANDARD NOTES FOR CONSTRUCTION DRAWINGS:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING BACKSLOPE DRAINAGE SYSTEMS.
2. ALL DISTURBED AREAS WITHIN THE SUBDIVISION, EXCEPT THE CHANNEL BOTTOM, SHALL BE FERTILIZED SEEDED.
3. ALL BACKFILL SHALL BE STRICTLY ACCORDING TO DETAILS, SPECIFICATION OR GEOTECHNICAL RECOMMENDATIONS, AS APPROVED BY ENGINEER.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING CHANNEL FLOWLINE TO DESIGN ELEVATIONS AS SHOWN ON PLANS AND DOWNSTREAM AS NECESSARY TO ENSURE NO WATER IN STORM SEWER DURING "DRY" CONDITIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOW IN CHANNEL DURING CONSTRUCTION AND RESTORING CHANNEL TO ORIGINAL CONDITION.

E. UTILITIES

1. CENTERPOINT ENERGY

WARNING: OVERHEAD ELECTRICAL FACILITIES

A. OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATED THEM PRIOR TO BEGINING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANCE FOR LINES TO BE TURNED OF OR REMOVED, CALL CENTERPOINT ENERGY, AT (713) 207-7777.

CAUTION: UNDERGROUND GAS FACILITIES

A. LOCATIONS OF CENTERPOINT ENERGY MAIN LINES, (TO INCLUDE GAS TRANSMISSION, AND/OR INDUSTRIAL GAS SUPPLY CORP. WHERE APPLICABLE), ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 OR 1-800-669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

B. WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713)-967-8037 FROM 7:00 AM TO 4:30 PM FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.

C. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.

D. WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.

E. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

F. OTHER:

1. LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON PLANS IS NOT GUARANTEED TO BE COMPLETE OR DEFINITE. THE APPROXIMATE LOCATIONS OF KNOWN EXISTING UTILITIES ARE SHOWN. CONTRACTOR SHALL DETERMINE THE EXACT SIZE AND HORIZONTAL AND VERTICAL LOCATIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY ALL OF THE PROPER GOVERNING AUTHORITIES, (STATE, COUNTY OR CITY) AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
2. ANY PERMANENT RELOCATION OF AN EXISTING UTILITY NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO RELOCATION AND SHALL CONFORM TO THE APPLICABLE STANDARDS OF GOVERNING AUTHORITIES.
3. CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND FACILITIES DURING INSTALLATION OF PROPOSED WORK.
4. IN THE EVENT THAT ANY CONTAMINATED MATERIALS OF SUSPECT CONTAMINATED MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CEASE OPERATIONS IN THAT AREA AND IMMEDIATELY NOTIFY THE ENGINEER.
5. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARDS OF THE GOVERNMENTAL AGENCY HAVING JURISDICTION.
6. ALL PAVEMENT SHALL CONFORM WITH THE STANDARDS OF THE GOVERNMENTAL AGENCY HAVING JURISDICTION.
7. ALL STORM SEWERS SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (RCP) ASTM C-76, CLASS III, EXCEPT FOR ALUMINIZED STEEL PIPE FOR OUTFALLS. (SEE DETAILS FOR BEDDING).
8. STEEL METAL PIPE SHALL BE ALUMINIZED STEEL AASHTO M274 TYPE 2 MIN. 0.052 THICKNESS.
9. ALL GRAVITY SANITARY SEWERS SHALL BE CONSTRUCTED OF PVC PIPE (ASTM D-3034, SDR 26), UNLESS OTHERWISE NOTED ON THE DRAWINGS.
10. ALL FORCE MAIN SANITARY SEWERS SHALL BE CONSTRUCTED OF PVC PIPE (ASTM D-3034, SDR 26), UNLESS OTHERWISE NOTED ON THE DRAWINGS.
11. ALL SANITARY SEWERS AND WATER MAINS SHALL HAVE SIX (6) INCHES OF SAND BACKFILL BOTH UNDER AND OVER PIPE WITH DETECTOR TAPE (METALLIC) INSTALLED 1.5' BELOW FINISH GRADE.
12. BACKFILL WITH CEMENT STABILIZED SAND WHEN SANITARY SEWER CROSSES OVER STORM SEWER (SPACE BETWEEN STORM AND SANITARY SEWERS).
13. ALL SEWERS UNDER OR WITHIN ONE (1) FOOT OF PROPOSED OR FUTURE PAVEMENT SHALL BE BACKFILLED WITH 1 ½ SACK CEMENT STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE.
14. COST OF SPECIAL BACKFILL AND BEDDING IS INCIDENTAL TO THE UNIT PRICE BID PER LINEAR FOOT, NO EXTRA PAY.
15. WATER MAINS SHALL BE C-900 PVC PIPE BEARING THE NSF-PWSEAL AND FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT WITH NON-CORRODING HARDWARE INCLUDING MEGA-LUG RESTRAINTS CONFORMING TO AWWA CL-110 OR C-153.
16. FIRE HYDRANTS SHALL BE "MUELLER IMPROVED" OR APPROVED EQUAL.
17. MINIMUM OF SIX (6) INCHES OF CLEARANCE SHALL BE MAINTAINED BETWEEN WATER MAIN CROSSING OF OTHER UTILITIES.
18. ALL PROPOSED PIPE STUB-OUTS FROM STORM MANHOLES OR INLETS ARE TO BE PLUGGED WITH EIGHT (8) INCH BRICK WALLS UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL NOTIFY THE CITY OR GOVERNMENTAL AGENCY HAVING JURISDICTION, 48 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION.
20. GUIDELINES SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SHALL BE OBSERVED.
21. ALL SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TCEQ "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS".
22. CONTRACTOR SHALL OBTAIN ALL CONSTRUCTION PERMITS REQUIRED TO THE STANDARDS OF THE GOVERNMENTAL AGENCY HAVING JURISDICTION.
23. SANITARY MANHOLES WITHIN THE FLOOD PLAIN SHALL BE WATERPROOFED AND VENTED WITH RISER ABOVE FLOOD PLAIN OR RIMS SET ABOVE THE 100 YEAR FLOOD ELEVATION.
24. WHERE A NEW POTABLE WATERLINE CROSSES A NEW, NON-PRESSURE RATED WASTEWATER MAIN OR LATERAL AND A STANDARD LENGTH OF THE WASTEWATER PIPE IS LESS THAN 18 FEET IN LENGTH, THE POTABLE WATER PIPE SEGMENT SHALL BE CENTERED OVER THE WASTEWATER LINE. THE MATERIALS AND METHOD OF INSTALLATION SHALL CONFORM WITH ONE OF THE FOLLOWING OPTIONS.

(I) WITHIN NINE FEET HORIZONTALLY OF EITHER SIDE OF THE WATERLINE, THE WASTEWATER PIPE AND JOINTS SHALL BE CONSTRUCTED WITH PIPE MATERIAL HAVING A MINIMUM PRESSURE RATING OF AT LEAST 150 PSI. AN ABSOLUTE MINIMUM VERTICAL SEPARATION DISTANCE OF TWO FEET SHALL BE PROVIDED. THE WASTEWATER MAIN OR LATERAL SHALL BE LOCATED BELOW THE WATERLINE.

(II) ALL SECTIONS OF WASTEWATER MAIN OR LATERAL WITHIN NINE FEET HORIZONTALLY OF THE WATERLINE SHALL BE ENCASED IN AN 18-FOOT (OR LONGER) SECTION OF PIPE. FLEXIBLE ENCASING PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS OF 115 PSI AT 5.0% DEFLECTION. THE ENCASING PIPE SHALL BE CENTERED ON THE WATERLINE AND SHALL BE AT LEAST TWO NOMINAL PIPE DIAMETERS LARGER THAN THE WASTEWATER MAIN OR LATERAL. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE-FOOT (OR LESS) INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. EACH END OF THE CASING SHALL BE SEALED WITH WATERTIGHT NON-SHRINK CEMENT GROUT OR A MANUFACTURED WATERTIGHT SEAL. AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF SIX INCHES BETWEEN THE ENCASEMENT PIPE AND THE WATERLINE SHALL BE PROVIDED. THE WASTEWATER LINE SHALL BE LOCATED BELOW THE WATERLINE.

(III) WHEN A NEW WATERLINE CROSSES UNDER A WASTEWATER MAIN OR LATERAL, THE WATERLINE SHALL BE ENCASED AS DESCRIBED FOR WASTEWATER MAINS OR LATERALS IN SUBCLASS (II) OF THIS CLAUSE OR CONSTRUCTED OF DUCTILE IRON OR STEEL PIPE WITH MECHANICAL OR WELDED JOINTS AS APPROPRIATE. AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF ONE FOOT BETWEEN THE WATERLINE AND THE WASTEWATER MAIN OR LATERAL SHALL BE PROVIDED. BOTH THE WATERLINE AND WASTEWATER MAIN OR LATERAL MUST PASS A PRESSURE AND LEAKAGE TEST AS SPECIFIED IN AWWA C600 STANDARDS.

25. COST OF TRENCH SAFETY SYSTEMS AS REQUIRED BY OSHA FOR DEPTHS OVER FIVE (5) FEET IS INCIDENTAL TO THE PROJECT.
26. WATER LINES ARE TO BE CONSTRUCTED TYPICALLY 4 FEET DEEP TO THE TOP OF THE LINE FROM THE FINISHED CURB ELEVATION OR NATURAL GROUND. LINES MAY BE SAGGED OR RAISED WITHIN THE RANGE OF 3-6 FEET TO AVOID UTILITY CONFLICTS WATER LINE DEFLECTIONS SHALL NOT EXCEED THE PIPE MANUFACTURES RECOMMENDATIONS.
27. ALL SLEEVES TO BE FOUR (4) INCH SCHEDULE 40 PVC SLEEVES TO BE EIGHTEEN (18) INCHES BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL. STUB OUT THREE (3) FEET BEYOND CURB AND MARK SLEEVES LOCATIONS ON CURB.
28. THERE SHALL BE A MINIMUM HORIZONTAL DISTANCE OF FOUR (4) FEET CLEARANCE BETWEEN ALL WATER LINES AND SANITARY SEWER LINES THAT ARE SDR 26, AND A NINE (9) FOOT CLEARANCE BETWEEN ALL WATER LINES AND SANITARY SEWER LINES THAT ARE SDR 35. (SEE DETAIL)
29. ALL JOINTS OF DUCTILE IRON PIPE BELOW GROUND WILL BE M.J. WITH PIPE RESTRAINTS.
30. ALL SIGNAGE AND/OR TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY HARRIS COUNTY PRIOR TO CONSTRUCTION.

NOTE:
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES IN THE ROAD R.O.W. PRIOR TO CONSTRUCTION. (TEXAS ONE CALL 1-800-545-6005)

NOTE:
CONTRACTOR SHALL ADJUST ALL WATER VALVES AND STORM SEWER MANHOLES TO MATCH FINAL GRADES. SEE ALL GRADING PLANS SHEETS.

NOTE:
CONTRACTOR SHALL VERIFY ALL WATER, SANITARY SEWER AND STORM SEWER LINES PRIOR TO WORKING IN ANY AREA. SEE TOPO MAP AND REFERENCE DRAWINGS.

NOTE:
THIS DEVELOPMENT HAS BEEN DESIGNED TO NOT IMPEDE, IMPOUND, OR BLOCK THE NATURAL FLOW OF DRAINAGE FROM OR ACROSS ADJACENT AND CONTIGUOUS PROPERTIES.

NOTE:
ALL FUTURE SITE AND BUILDINGS PROJECTS WILL REQUIRE CIVIL/SITE DRAWING APPROVAL AND CHANGES TO THE PLATS MAY BE REQUIRED AS A PART OF THE REVIEW PROCESS.

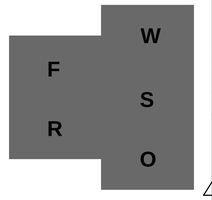
ALL PIPE PLACEMENT AND JOINTING WILL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACTURES' REQUIREMENTS AND SPECIFICATIONS.

STORM SEWER PIPE — HDPE N-12, PVC SDR35 OR RCP CLASS III (RUBBER GASKET)— EXCEPT IF NOTED OTHERWISE
POTABLE WATER —— 3" AND SMALLER – SCH 80 PVC
4" AND LARGER – C-900, DR 18- 150 PSI
SANITARY SEWER – GRAVITY , PVC SDR 26
CULVERT PIPE – RCP CLASS IV T&G

THE OWNER WILL SET UP THE NECESSARY WATER ACCOUNTS AND PURCHASE THE WATER METERS AND METER BOXES.
THE CONTRACTOR WILL PICK UP THE METERS AND BOXES AT THE CITY AND DELIVER THEM TO THE JOBSITE.
THE CONTRACTOR WILL MAKE THE NECESSARY TAPS AND INSTALL THE METERS AS REQUIRED BY HARRIS COUNTY.

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com
TEL 713 871 8484
FAX 713 871 8440
ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities PH3

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	ADDENDUM NO.3	10-07-2020

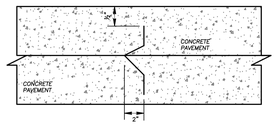
PROFESSIONAL SEALS

GENERAL NOTES

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_R&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

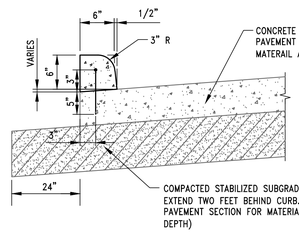
C7.0-PH3
3
SHEET NUMBER

FILE PATH: File Path
DATE STAMP: 6/26/2008 2:02:08 PM

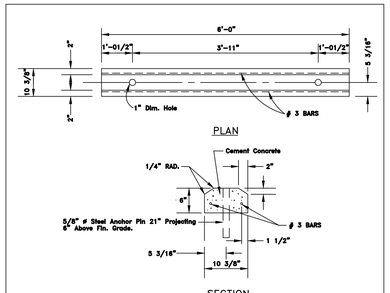


THE LOCATION OF DEFORMED STRIPS MAY BE VARIED, WITH THE APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS, TO SUIT THE PROPOSED CONSTRUCTION METHODS OF THE CONTRACTOR. MAXIMUM LONGITUDINAL SPACING FOR DEFORMED STRIPS IS 14'-0". DEFORMED METAL STRIPS SHALL BE PLACED VERTICALLY ALONG A STRAIGHT ALIGNMENT.

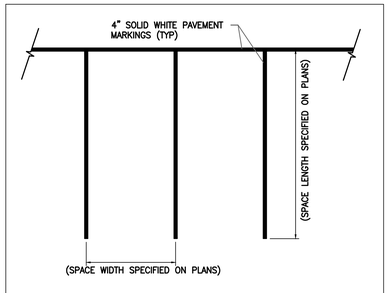
DEFORMED METAL STRIP
N.T.S



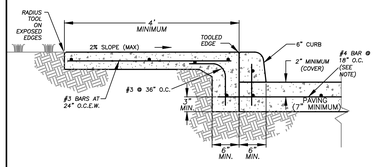
CONCRETE CURB SECTION
SCALE: N.T.S.



PRECAST CONC.
WHEEL STOP DETAIL
SCALE: N.T.S.



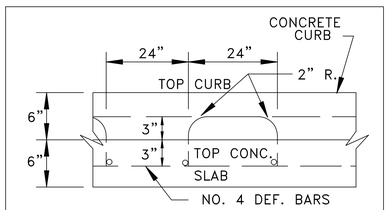
TYPICAL PARKING SPACE DIMENSIONING
SCALE: N.T.S.



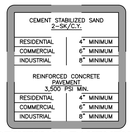
NOTES:

1. EXTEND PAVEMENT EXPANSION JOINTS THROUGH SIDEWALK.
2. ALLOW KEYWAY WITH L-BAR OR DRILL & GROUT #4 IN PAVEMENT. MINIMUM EMBEDMENT 6" INTO PAVEMENT.
3. SEE ROSENBERG STANDARD PAVING SHEET P-100a FOR FURTHER CONCRETE CURB DETAILS
4. SEE ROSENBERG STANDARD PAVING SHEET P-101 FOR FURTHER SIDEWALK DETAILS
5. SEE ROSENBERG STANDARD PAVING SHEET P-10B FOR FURTHER ROADWAY DETAILS

SIDEWALK CONNECTION TO CURB
N.T.S

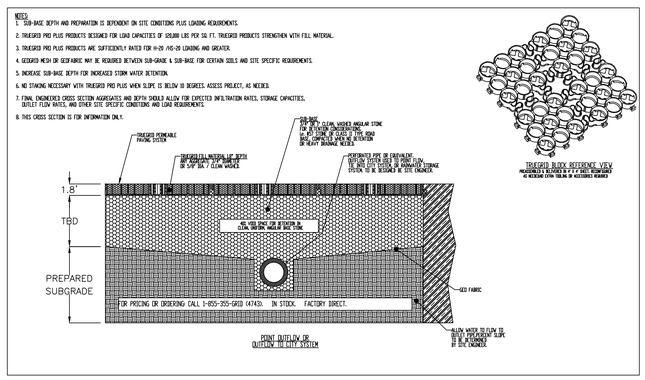


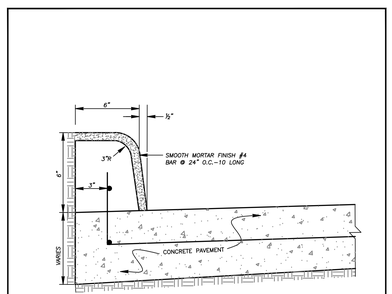
TYP. CONCRETE CURB REINFORCING
SCALE: N.T.S.



DRIVEWAY PAVEMENT CONSTRUCTION TABLE

STANDARD DRIVEWAY CONSTRUCTION TABLE & NOTES
N.T.S

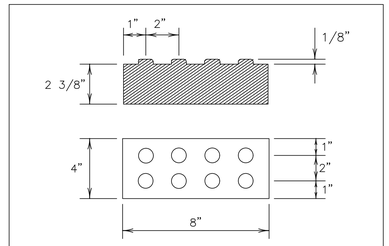




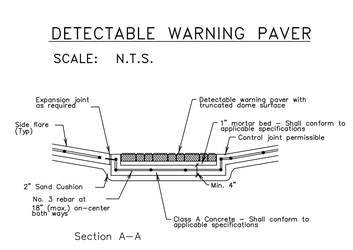
NOTES:

1. MORTAR FINISH NOT REQUIRED WHEN CURB IS POURED BY A MACHINE, BUT CURB WILL HAVE THE SAME OUTSIDE DIMENSIONS.
2. WHEN CONCRETE CURB IS TO BE PLACED ON EXISTING CONCRETE BASE, USE #4 DEFORMED BARS, 10" LONG, 24" O.C., DOWELLED, AND SET IN QUICK SETTING CEMENT MORTAR
3. REDWOOD EXPANSION JOINTS SHALL BE INSTALLED IN CURB AT ALL PAVEMENT EXPANSION JOINTS.

6" CONC. CURB DETAIL
N.T.S



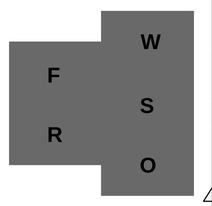
DETECTABLE WARNING PAVER
SCALE: N.T.S.



Section A–A

ONE– CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH3

5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

	REVISION	DESCRIPTION	DATE
3		ADDENDUM NO. 3	10-07-2020

PROFESSIONAL SEALS

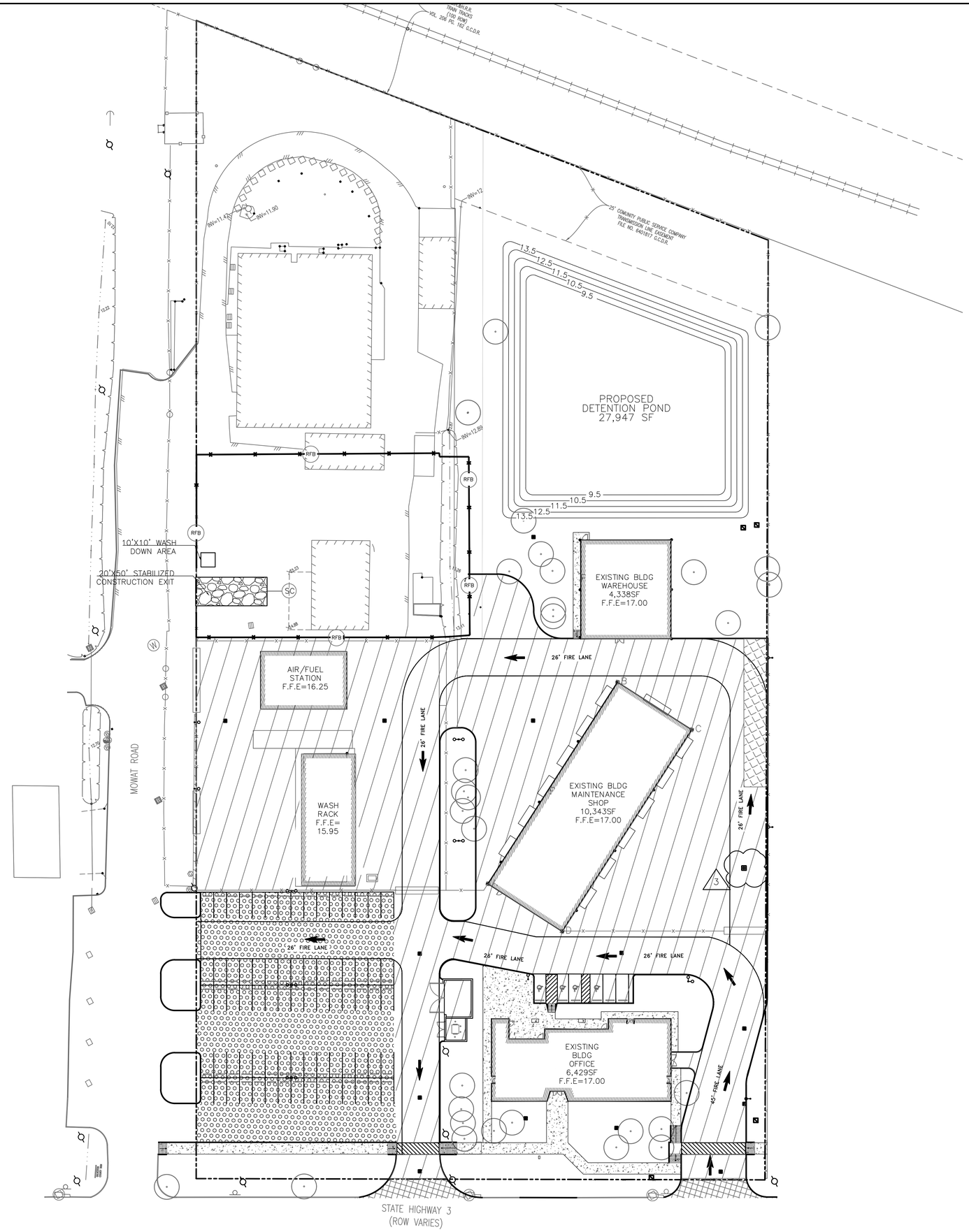
STATE OF TEXAS
FRED DALLY
90904
LICENSED PROFESSIONAL ENGINEER
10/07/2020

PAVEMENT DETAILS

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

C8.0-PH3
3
SHEET NUMBER

FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM



60 0 30 60

SCALE: 1"=30'

SWPPP LEGEND

RFB — REINFORCED FILTER FABRIC BARRIER AT LEAST 2' BEHIND BACK OF CURB/PAVEMENT

SC — STABILIZED CONSTRUCTION EXIT.

INLET PROTECTION BARRIER (IPB).

WASH DOWN AREA.

SWPPP CONSTRUCTION NOTES

1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATION SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP SILT AND /OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.

2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATED MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.

3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FROM THE EXCAVATED AREA.

4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.

5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

- 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.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND/ OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING.
SLOPES 4:1 OR STEPPER SHALL BE REPLACED BY CLOCK SODDING.

CONCRETE TRUCK/EQUIPMENT WASH OUT

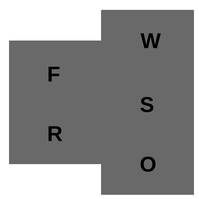
1. CONTRACTOR(S) SHALL NOT WASH OUT CONCRETE TRUCKS OR EQUIPMENT INTO STREET DEAD ENDS, RIGHT-OF-WAYS, GUTTERS, STORM SEWER INLETS, WATERWAYS, CREEKS OR ANY LOCATION WHERE THE MATERIALS COULD REACH THE STORM SEWER (MS4) SYSTEM. ROCKED CUL-DE-SACS ARE NOT APPROVED WASH OUT AREAS. ALL DEPOSITED MATERIALS SHALL BE REMOVED AND PROPERLY DISPOSED OF AT THE COMPLETION OF WORK.

2. WASH OUT CONCRETE TRUCKS AND/OR EQUIPMENT ONLY IN A DESIGNATED, CONFINED WASHOUT AREA WHERE THE WATER WILL FLOW INTO A TEMPORARY PIT IN A DIRT AREA OR ONTO STOCKPILES OF AGGREGATE BASE OR SAND. THIS AREA MUST BE AN IDENTIFIED LOCATION.

3. COLLECT AND RETURN SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE TO A STOCKPILE OR DISPOSE OF THE WASTE IN A TRASH CONTAINER.

ONE- CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City /
San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH3
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	ADDENDUM NO.3	10-07-2020

PROFESSIONAL SEALS

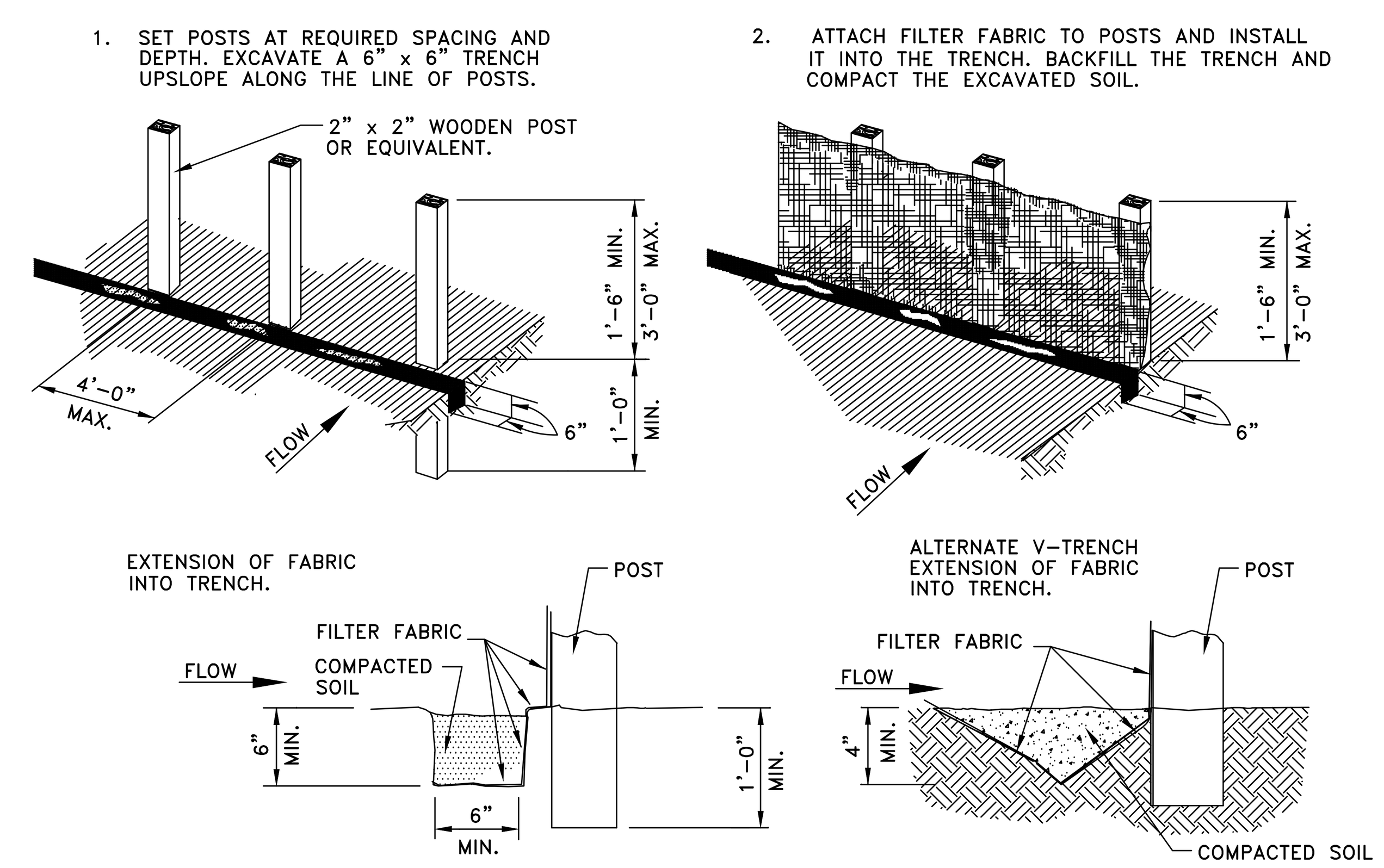
STATE OF TEXAS
FRED DALLY
90904
LICENSED
PROFESSIONAL ENGINEER
10/07/2020

SWPPP PLAN

DRAWN BY	CHECKED BY
JDM	JDM
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GC_R&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	07 OCT 2020

3 C9.0-PH3
SHEET NUMBER

FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM



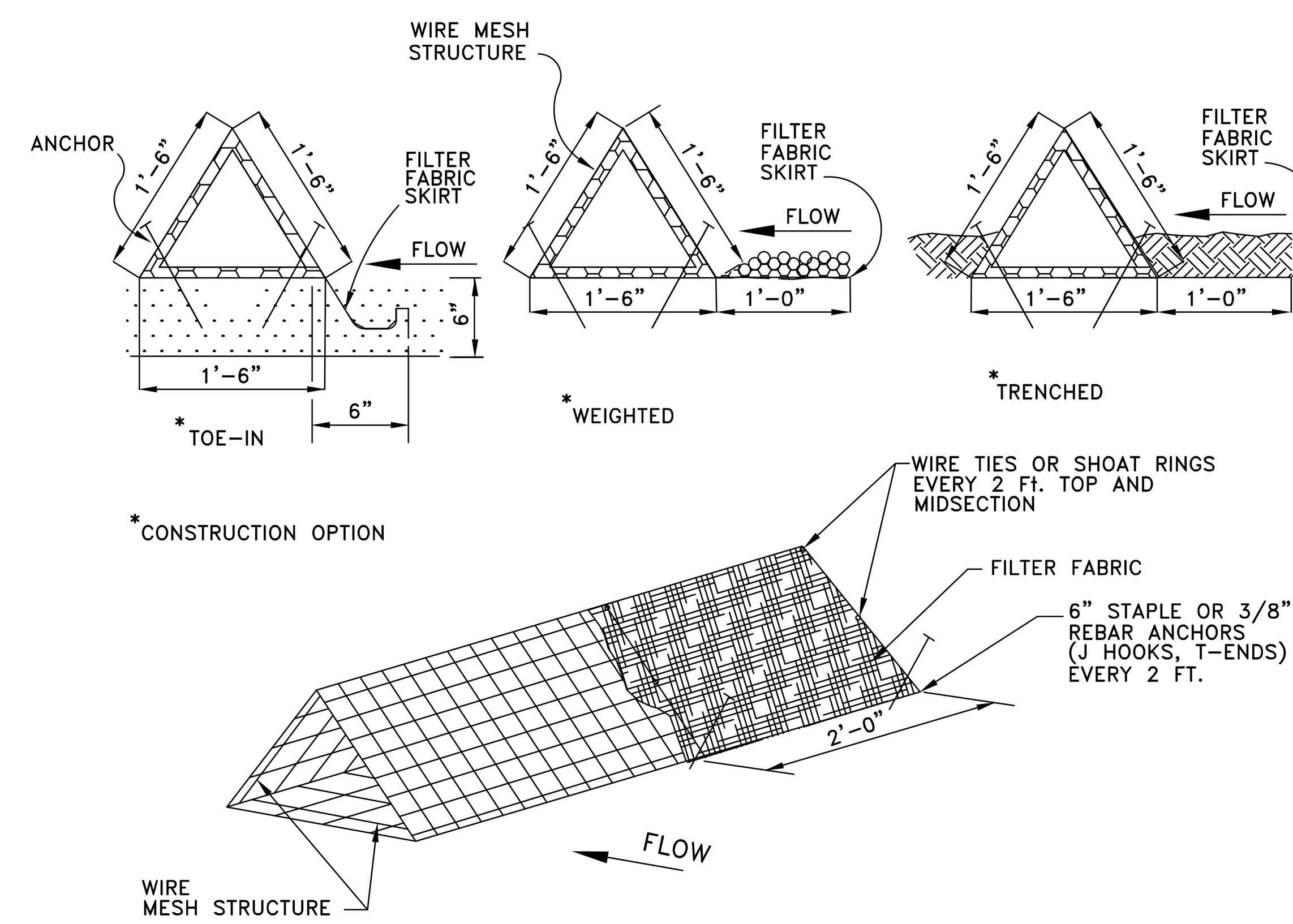
GENERAL NOTES:

1. SET POSTS AT 4-FEET MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM.
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE.

FILTER FABRIC FENCE

×— FF —×

SYMBOL



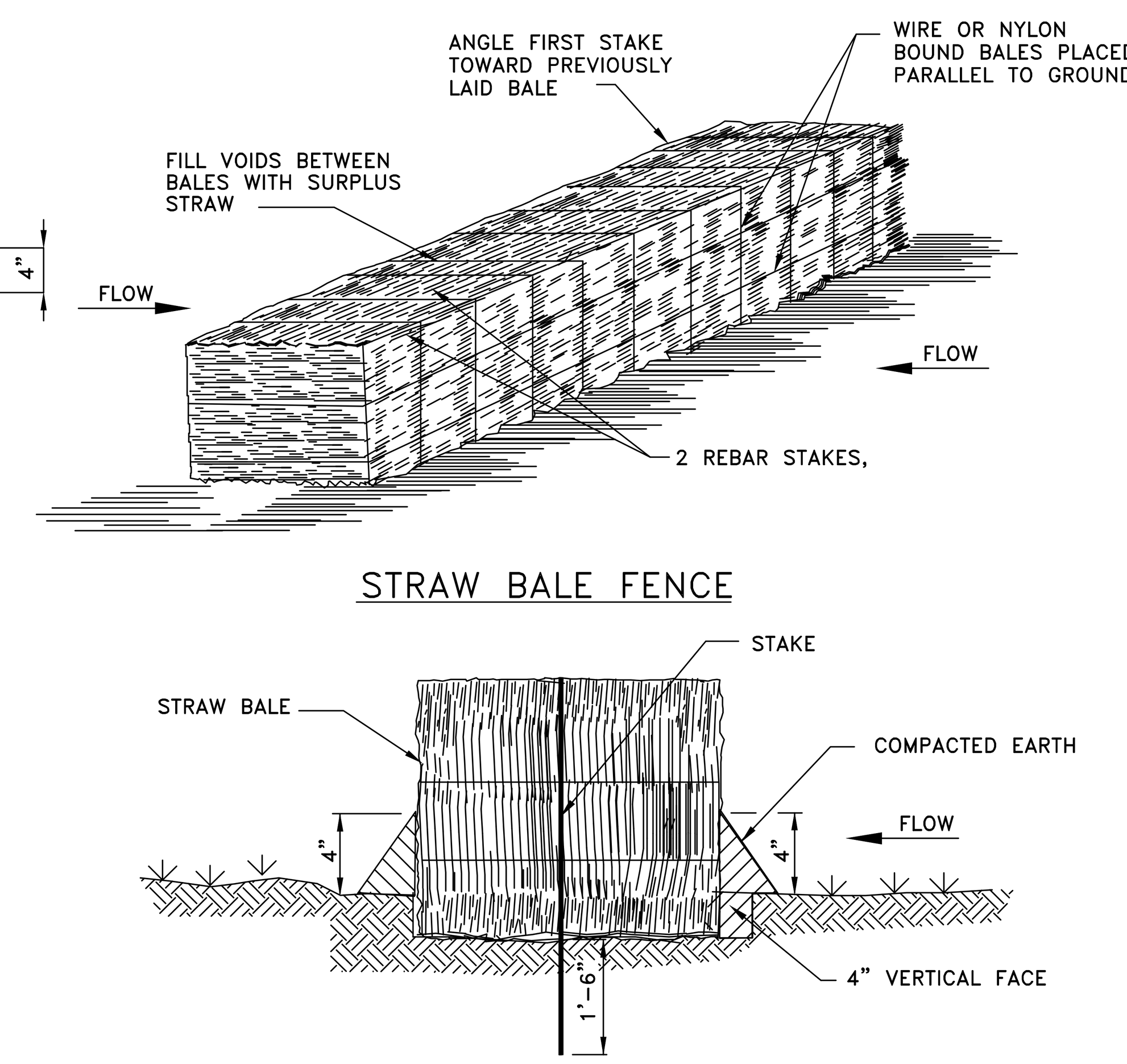
GENERAL NOTES:

1. PLACE BARRIER IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BARRIER.
2. USING ONE CONTINUOUS SECTION OF FILTER FABRIC, WRAP FABRIC AROUND WIRE MESH AND EXTEND FABRIC TO FORM SKIRT ON THE UPSTREAM SIDE.
3. WEIGHT SKIRT WITH A CONTINUOUS LAYER OF 3-INCH TO 5-INCH OPEN GRADED ROCK, OR TOE IN SKIRT WITH SIX INCHES WITH MECHANICALLY COMPACTED MATERIAL.
4. SECURELY ANCHOR BARRIER AND SKIRT IN PLACE USING 6-INCH WIRE STAPLES ON 2-FOOT CENTERS ON BOTH EDGES, OR STAKE USING 18-INCH BY 3/8 INCH REBARS (T-ENDS, J-HOOKS).
5. FILTER FABRIC SHALL BE LAPPED OVER ENDS 6 INCHES TO COVER SEGMENT JOINTS. FASTEN JOINTS WITH GALVANIZED SHOAT RINGS OR EQUIVALENT.
6. THE BARRIER STRUCTURE SHALL BE WELDED WIRE MESH, 18 INCHES ON EACH SIDE.

TRIANGULAR FILTER FABRIC FENCE

×— TFF —×

SYMBOL



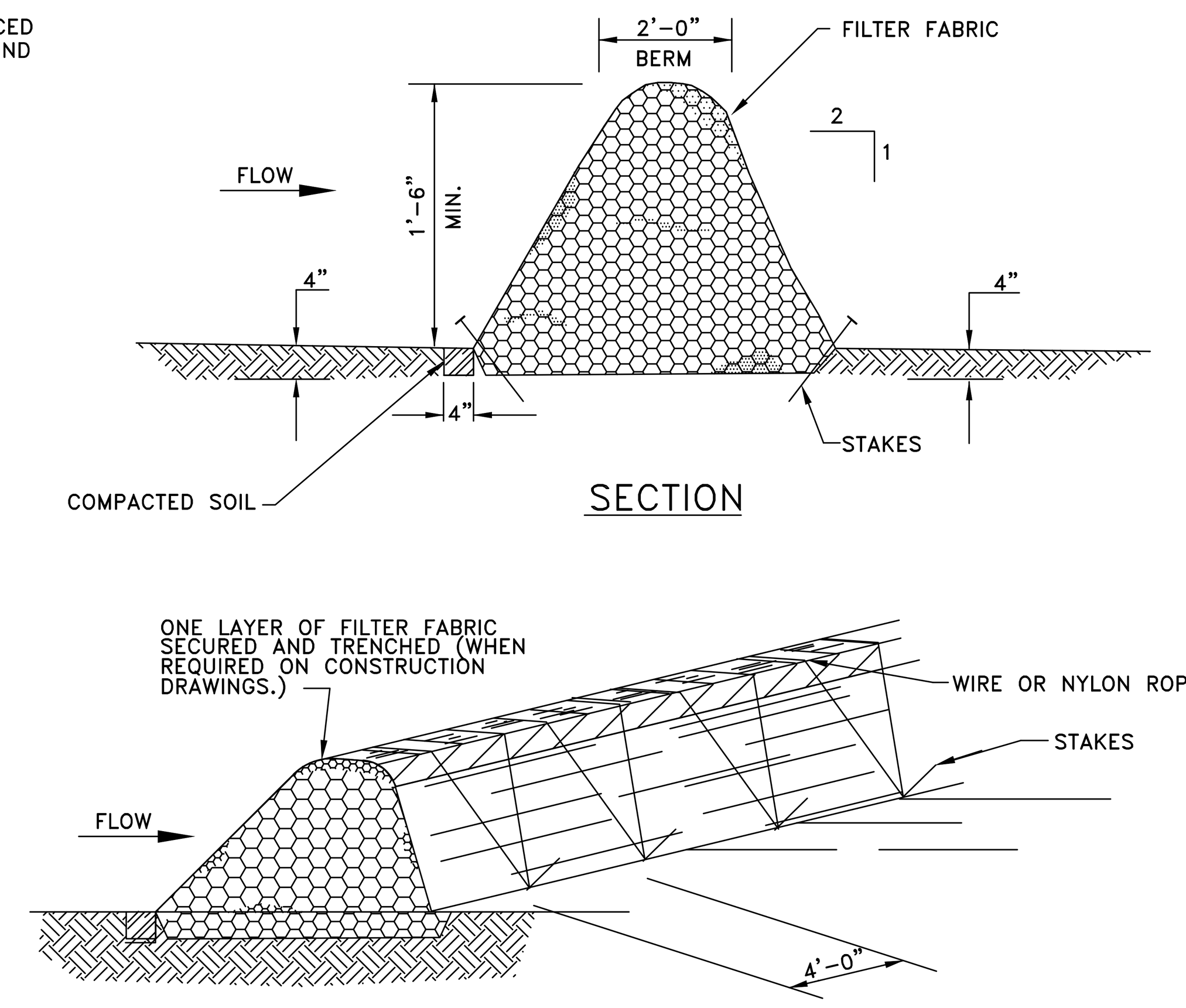
GENERAL NOTES:

1. LIMIT USE TO ONSITE SWALES FOR PURPOSES OF LOW FLOW VELOCITY DISSIPATION FOR EROSION CONTROL. USE STRAW BALE FENCES TO TREAT OVERLAND FLOW ONLY. DO NOT USE STRAW BALE FENCES TO TREAT FLOW IN CHANNELS.
2. PLACE BALES IN A ROW WITH ENDS TIGHTLY ABUTTING ADJACENT BALES. FILL THE VOIDS BETWEEN BALES WITH SURPLUS STRAW. PLACE BALES WITH BINDING PARALLEL TO GROUND SURFACE.
3. IMBED EACH BALE AT LEAST 4 INCHES IN THE SOIL.
4. SECURELY ANCHOR BALES IN PLACE BY REBAR STAKES. DRIVE STAKES THROUGH THE BALES AND AT LEAST 18 INCHES INTO THE GROUND. ANGLE THE STAKE IN EACH BALE TOWARD THE PREVIOUS BALE TO FORCE THE BALES TOGETHER.
5. BIND BALES WITH WIRE OR NYLON ROPE TIED ACROSS THE STRAW BALES.
6. REPLACE WITH NEW STRAW BALE FENCE EVERY TWO MONTHS.
7. WATTLES STAKED INTO THE GROUND ARE A PREFERRED SUBSTITUTE FOR STRAW BALE FENCES.

STRAW BALE FENCE

×— SBF —×

SYMBOL



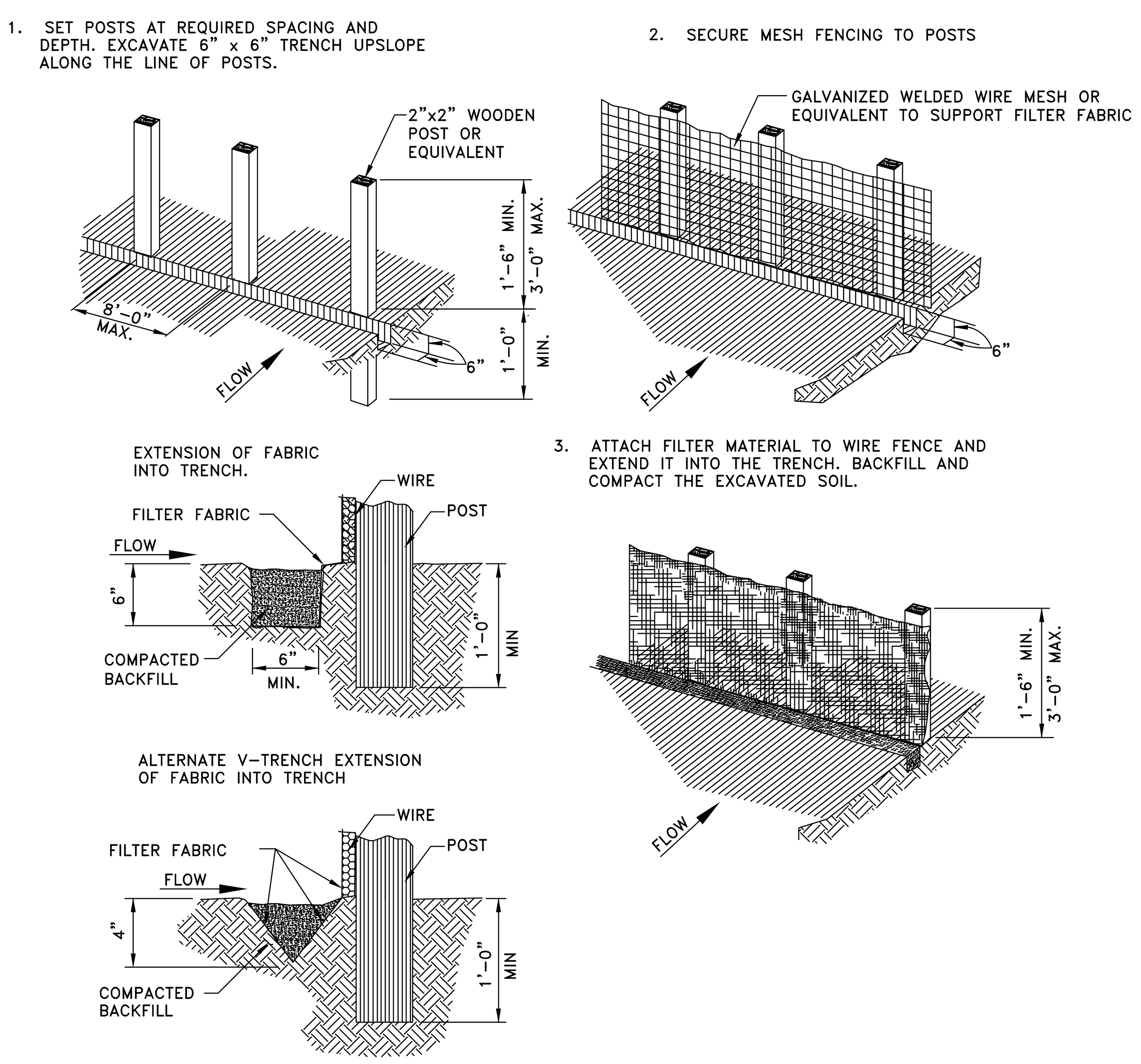
GENERAL NOTES:

1. LIMIT USE TO ONSITE SWALES FOR PURPOSES OF LOW FLOW VELOCITY DISSIPATION FOR EROSION CONTROL. USE BRUSH BERMS TO TREAT OVERLAND FLOW ONLY. DO NOT USE BRUSH BERMS TO TREAT FLOW IN CHANNELS.
2. PLACE WOODY BRUSH AND BRANCHES HAVING A DIAMETER OF LESS THAN 2 INCHES WITH A 6-INCH OVERLAP. AVOID INCORPORATION OF ANNUAL WEEDS AND SOIL INTO BRUSH BERM.
3. MINIMUM HEIGHT OF THE BRUSH BERM IS 18 INCHES, MEASURED FROM THE TOP OF THE EXISTING GROUND AT THE UPSLOPE TOE TO THE TOP OF THE BERM.
4. HAND PLACE BRUSH BERMS ALONG CONTOUR LINES. MACHINE PLACEMENT OF BRUSH BERMS IS NOT PERMITTED.
5. IMBED BRUSH BERM AT LEAST 4 INCHES INTO THE SOIL.
6. ANCHOR BRUSH BERMS USING WIRE OR NYLON ROPE ACROSS THE BERM WITH A MINIMUM TENSION OF 50 POUNDS.
7. SECURELY TIE ROPE TO 18-INCH REBAR STAKES DRIVEN INTO THE GROUND ON 4-FOOT CENTERS ON BOTH SIDES OF THE BERM.
8. PERFORM MAINTENANCE AS NEEDED.

BRUSH BERM

×— BB —×

SYMBOL



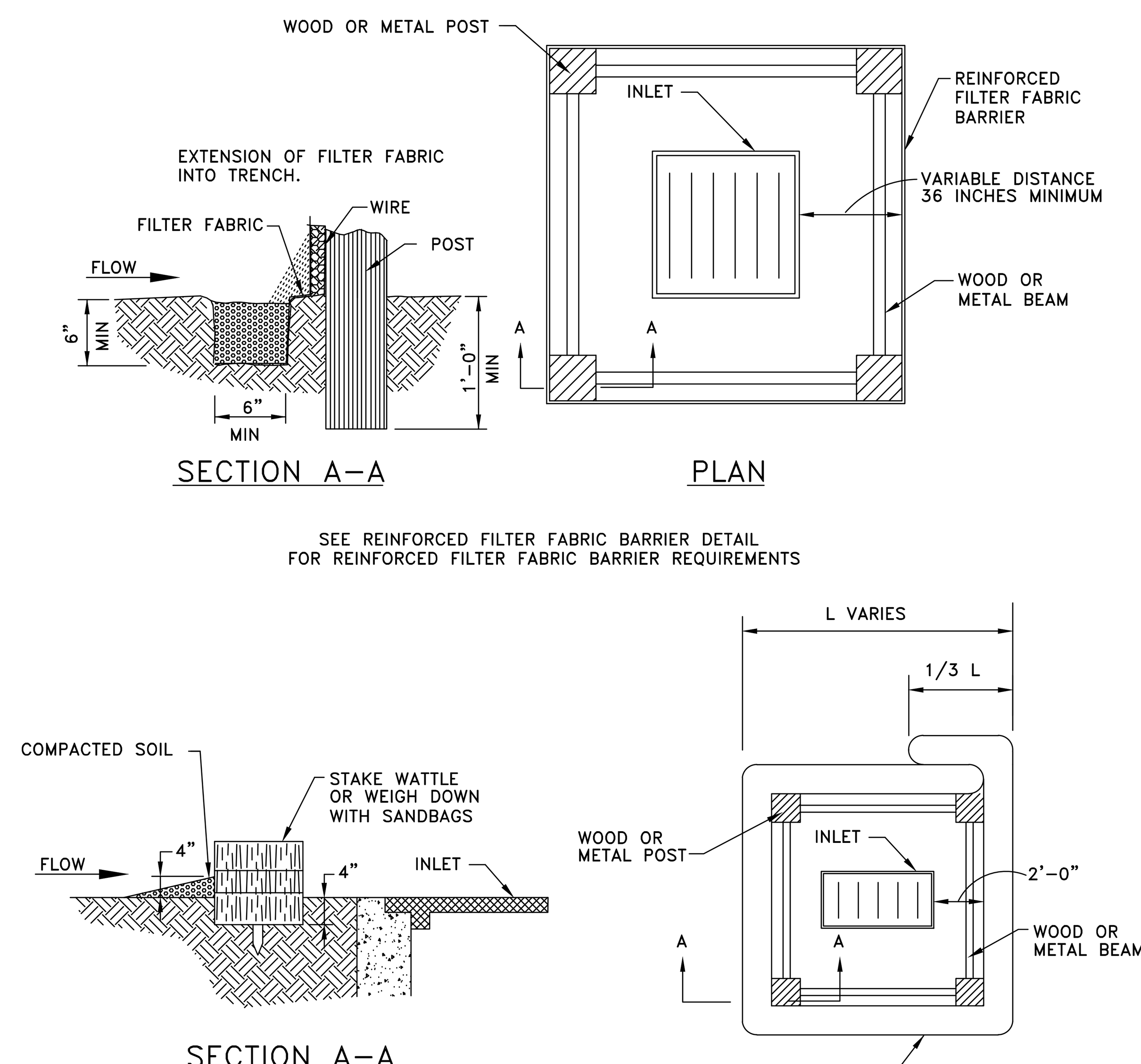
GENERAL NOTES:

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 IN DEPTH.

REINFORCED FILTER FABRIC BARRIER

×— RFB —×

SYMBOL

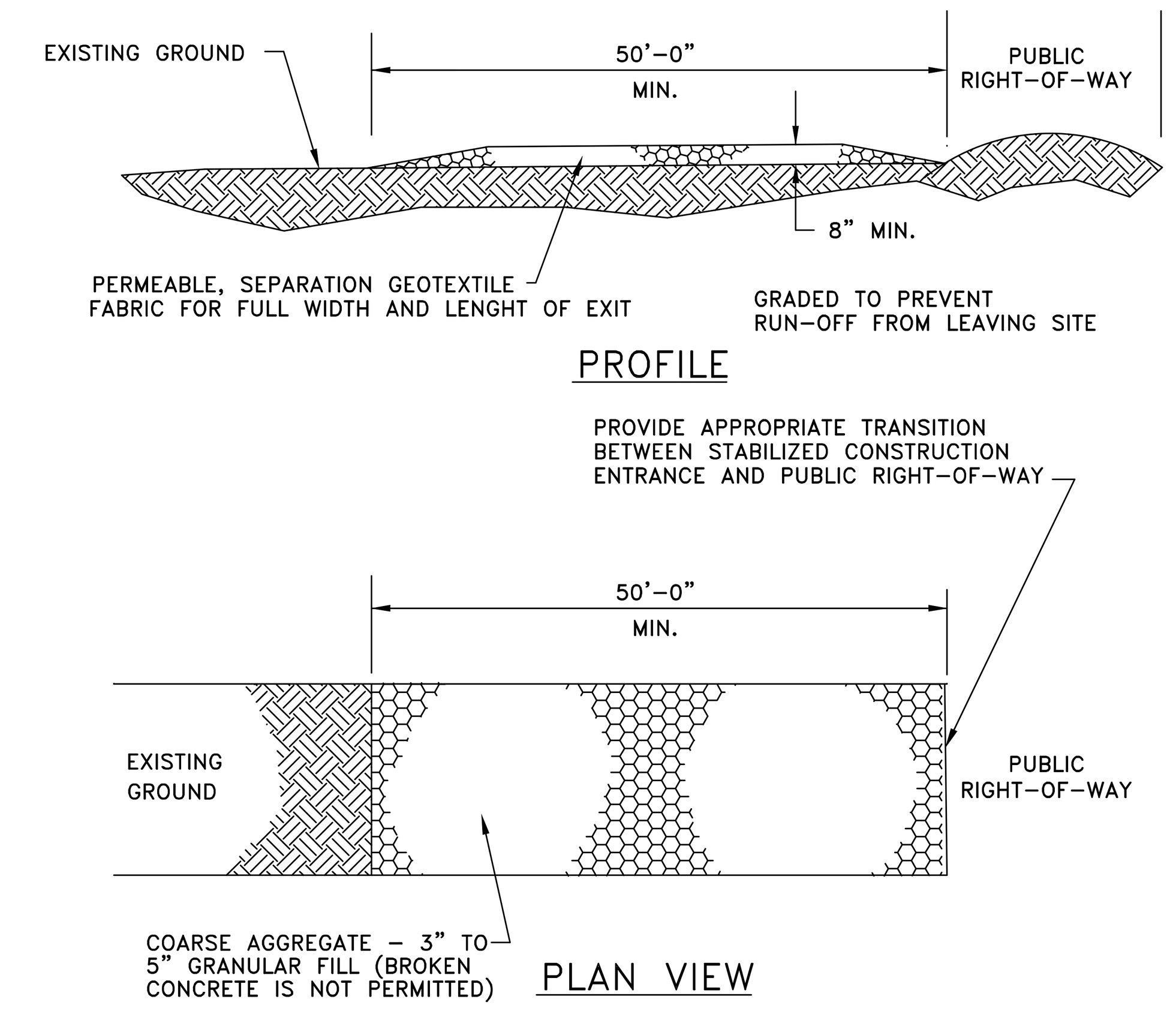


NOTE:
TYPICALLY STRAW BALES ARE NOT RECOMMENDED FOR INLET PROTECTION BARRIERS.

INLET PROTECTION BARRIERS FOR STAGE I INLETS

IPB

SYMBOL



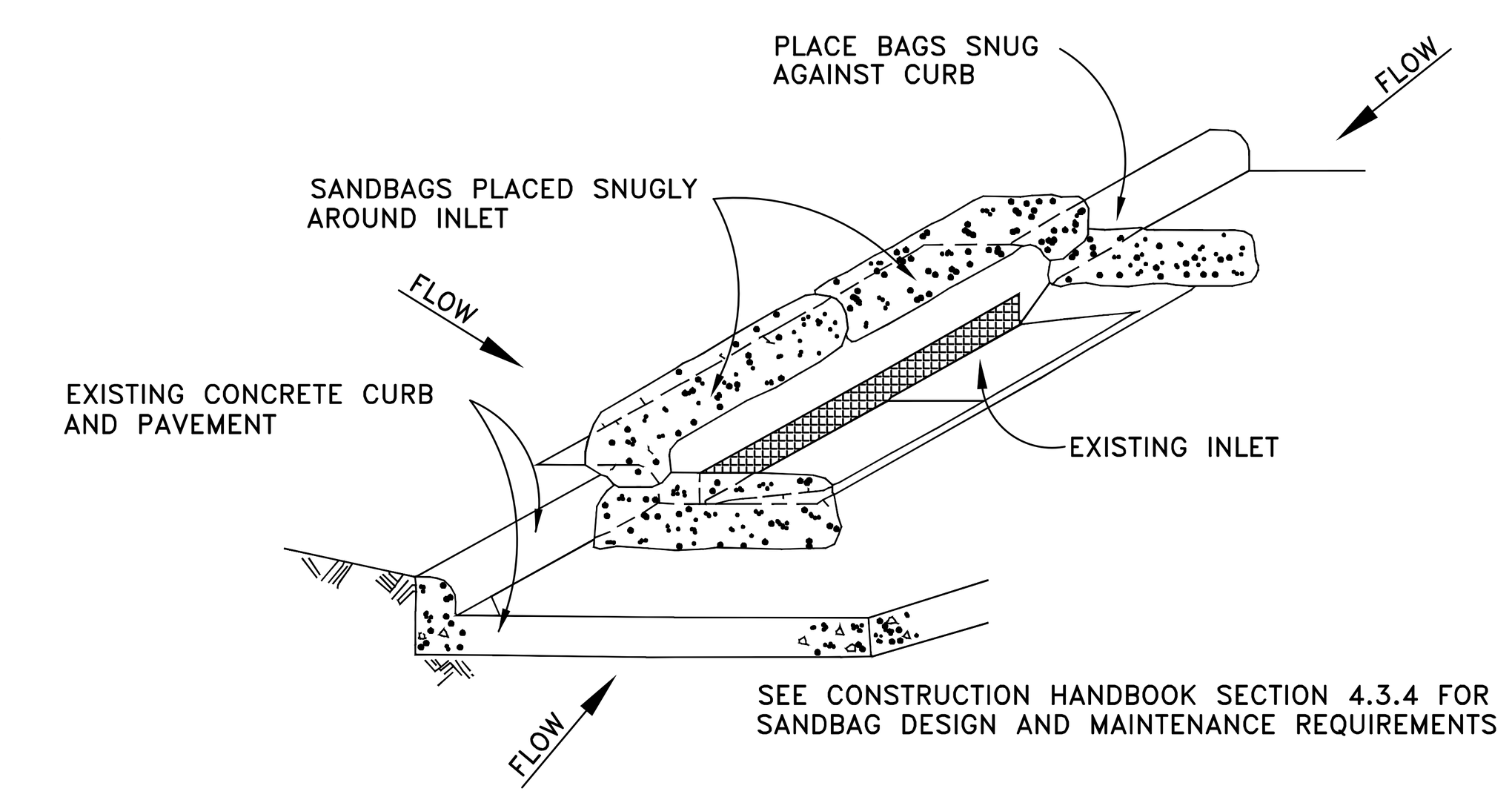
GENERAL NOTES:

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 INCLUDE
   –CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.
   –WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 6 INCHES.
   –STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.

STABILIZED CONSTRUCTION ACCESS

SC

SYMBOL



GENERAL NOTES:

1. BAGS OR WATTLES CAN BE USED FOR THIS APPLICATION.
2. PROVIDE WOVEN OR UNWOVEN GEOTEXTILE FILTER FABRIC FOR BAGS.
3. PROVIDE COARSE SAND AND AGGREGATE MIX FOR FILL MATERIAL FOR BAGS. USE ONLY PARTICLES CONSISTING OF CLEAN, HARD, DURABLE MATERIALS FREE FROM ADHERENT COATINGS, SALT, ALKALI, DIRT, CLAY, LOAM, SHALE, SOFT OR FLAKY MATERIALS, OR ORGANIC AND INJURIOUS MATTER.
4. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.

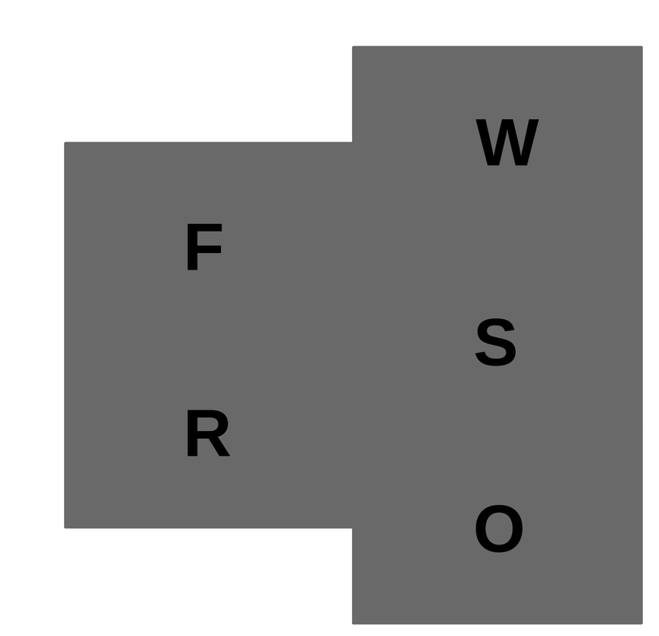
INLET PROTECTION BARRIERS FOR STAGE II INLETS

IPB

SYMBOL

ONE– CALL NOTIFICATION SYSTM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (In Houston, Tx)
(New Statewide Number Outside Houston)
1-800-545-6005

KEY PLAN (NOT TO SCALE)



Page/

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Dally & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

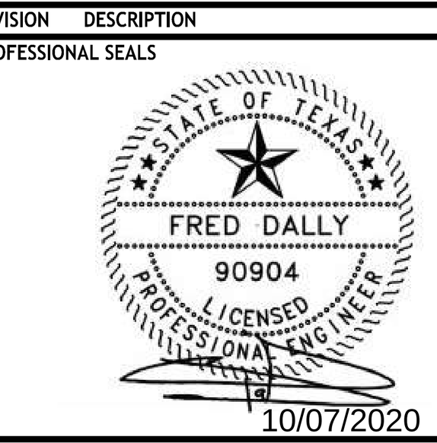
Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County
Road & Bridge Department Facilities PH3
5115 Texas Highway 3
Dickinson, TX

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	ADDENDUM NO.3	10-07-2020

PROFESSIONAL SEALS



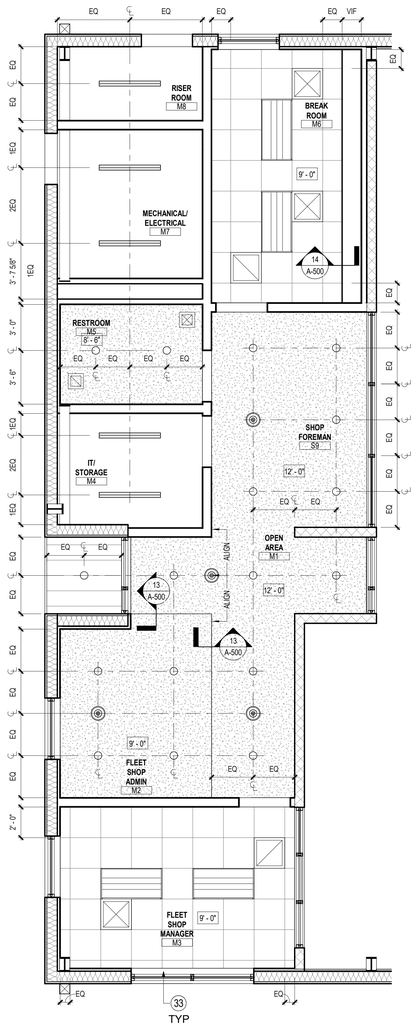
SWPPP DETAILS

DRAWN BY: JDM	CHECKED BY: JDM
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GC_R&B
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 07 OCT 2020

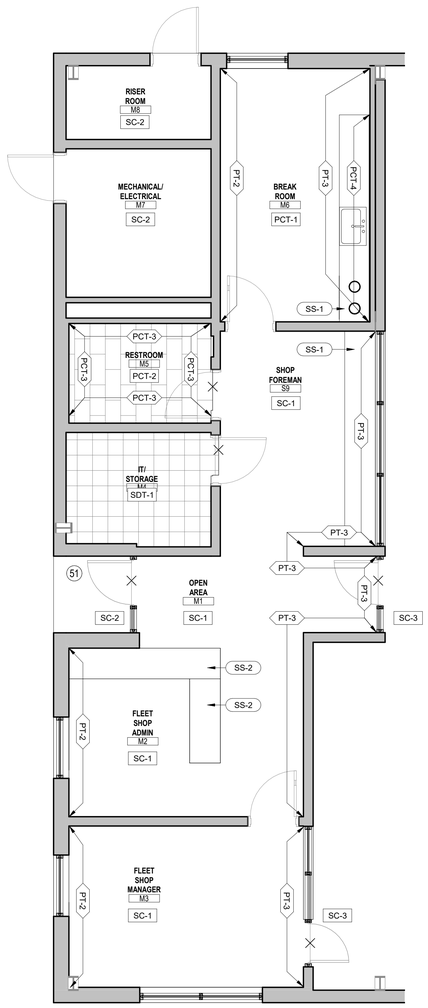
C10.0-PH3

SHEET NUMBER

FILE PATH: File Path
USER NAME:
DATE STAMP: 6/26/2008 2:02:08 PM

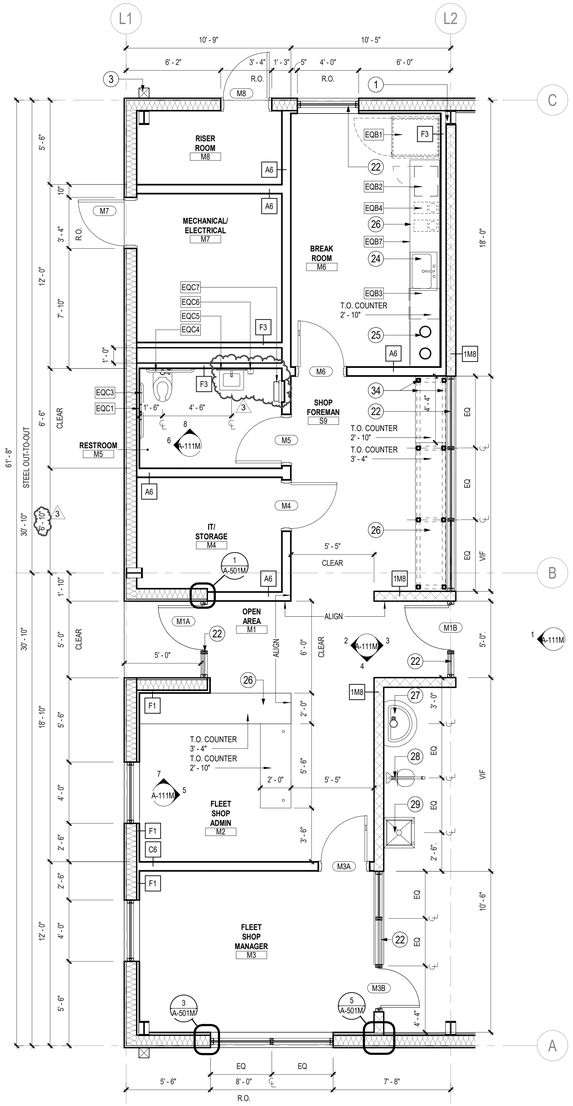


3 **REFLECTED CEILING PLAN**
SCALE: 1/4" = 1'-0"



2 **FINISH PLAN**
SCALE: 1/4" = 1'-0"

RE: INTERIOR ELEVATIONS FOR ADDITIONAL FINISH DATA



1 **CONSTRUCTION PLAN**
SCALE: 1/4" = 1'-0"

KEYED NOTES

NUMBER	DESCRIPTION
1	PEMB STRUCTURE
2	PEMB GUTTER ASSEMBLY
3	PEMB DOWNSPOUT ASSEMBLY WITH DAYLIGHT
4	PEMB STRUT
5	PEMB SHEAR BRACE
6	INSULATED PEMB WALL ASSEMBLY WITH METAL PANEL FINISH
7	SURFACE-MOUNTED LIGHTING FIXTURE. RE: ELECTRICAL
8	WIND-DRIVEN-RAIN-RESISTANT LOUVER ASSEMBLY. 50% MIN. FREE AREA. MIAMI-DADE APPROVED. B.O.D. IS RUSKIN ELF6375DXD. RE: MECHANICAL
9	PEMB TRIM
10	SLAB-ON-GRADE. RE: STRUCTURAL
11	OH COILING DOOR. RE: DOOR SCHEDULE
12	8" DIAMETER 42" HIGH PAINTED GALVANIZED STEEL CRASH BOLLARD WITH CONCRETE FILL AND DOME TOP
13	MECHANICAL ASSEMBLY. RE: MECHANICAL
14	INSULATED PEMB ROOFING ASSEMBLY
15	6" CAST-IN-PLACE CONCRETE PAD. FRAMED AT PERIMETER WITH STEEL ISLAND FORMS BY RED-E-FORM
16	GALVANIZED PAINTED HSS TUBE
17	OVERHEAD FAN. RE: MECHANICAL
18	CRANE RAIL BEAM
19	CRANE RAIL BEAM SUPPORT. ANCHORED TO PEMB STRUCTURE ABOVE
20	CHAIN-HUNG RADIANT HEATER. RE: MECHANICAL
21	COMPRESSED AIR LINE
22	INSULATED GLAZED EXTERIOR STOREFRONT
24	TAS-COMPLIANT STAINLESS STELL SINK ASSEMBLY
25	10" DIAMATER STAINELESS STEEL GROMMET
26	SOLID SURFACE COUNTERTOP
27	STAINLESS STEEL HAND WASHING SINK. RE: PLUMBING
28	STAINLESS STEEL EYE WASHING STATION. RE: PLUMBING
29	MOP SINK. RE: PLUMBING
30	INSULATED LIGHT-WALL ASSEMBLY
31	PEMB METAL PANEL INTERIOR WALL WAISNCOT TO 8'
32	QUICK-CONNECT COMPRESSED AIR TERMINUS. RE: PLUMBING
33	PROVIDE MANUAL ROLLER SHADE AT WINDOW HEAD
34	PROVIDE TUBE STEEL FRAMING TO SUPPORT FLOATING COUNTERTOP ASSEMBLY. PROVIDE SUPPORTS AT WALLS AT EITHER END
35	PEMB TRIM
36	CORD CHASE AND WHIP
37	2" CORD GROMMET WITH PASS-THRU COVER
41	UNINSULATED PEMB ROOFING ASSEMBLY
42	COMPRESSED FLUID LINES. RE: PLUMBING
43	DAYLIT GUTTER DISCHARGE
44	UTILITY TRENCH
45	HOSE REEL STAND. RE: PLUMBING AND ELECTRICAL
46	VAPOR BARRIER
47	GALVANIZED MCNICHOLS TRAFFIC-RATED BAR-STOCK PANEL. 3' LENGTHS
48	GALVANIZED EMBED ANGLE
49	GALVANIZED SUPPORT ANGLE
50	LINE OF PEMB STRUCTURE ADJACENT
51	PROVIDE MEDIUM BROOM FINISH AT EXTERIOR CONCRETE PATIO
52	POWER & DATA J-BOX HOSTED UNDER HOSE REEL COLUMN. RE: ELECTRICAL & TELECOM
53	DUPLEX DATA TERMINAL IN STEEL HOUSING MOUNTED TO HOSE-REEL STAND. RE: TELECOM
54	PREFINISHED SHEETMETAL FLASHING
55	PEMB WEATHER BARRIER
56	PEEL-N-STICK MASTIC
57	PEMB WALL PANEL
58	RETICULATED DOURLE SEALANT JOINT WITH BACKER-ROD AND WEEP BAFFLES
59	INTERIOR WALL FINISH. RE: FINISH PLAN
60	CMU WALL. RE: STRUCTURAL
61	1" THICK COMPRESSIBLE FILLER
62	3/4" FIRE-TREATED PLYWOOD
63	TREATED BLOCKING

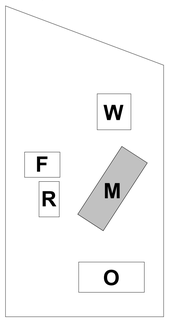
GENERAL NOTES

1. RE: G-110 FOR DOOR, HARDWARE, EQUIPMENT AND FINISH SCHEDULES.
2. RE: G-100 FOR CODE AND LIFE-SAFETY ANALYSIS.
3. RE: A-101S FOR SITE PLAN.
4. RE: MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DATA.
5. EQM3 (MOBILE COLUMN LIFT) NOT SHOWN IN DRAWINGS.
6. WALLS TO RECIEVE PT-1 FINISH WITH B-1 BASE U.N.O.
7. PROVIDE SCHLUTER STRIP IN ANNODIZED ALUMINUM AT ALL TILE OUTSIDE CORNERS AND ALL OPEN TILE WALL EDGES.
8. ALL EXPOSED PEMB RIBS AND EXPOSED STRUCTURAL STEEL TO RECIEVE PT-3 FINISH.
9. M-8 WALLS TO RECIEVE PT-3 FINISH U.N.O.
10. MAINTENANCE SHOP FLOOR TO RECIEVE SC-3 FINISH.

LEGEND

A	COLUMN GRID DESIGNATIONS
1	KEYED NOTE KEYED NOTES ONLY APPLY TO THIS SHEET
1 / A-301	SECTION TAG
1 / A-201	ELEVATION TAG
ROOM NAME / S1	ROOM NAME ROOM NUMBER
S1	DOOR TAG
SC-2	FLOOR OR CEILING FINISH TAG
SS-1	MATERIAL FINISH TAG
PT-2	WALL FINISH TAG
	FLOOR FINISH TRANSITION

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Daily & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Daily & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities

5115 TX-3
Dickinson, Texas 77539

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	Addendum No. 03	07 OCT 2020

PROFESSIONAL SEALS
Firm Registration No. 15868
Page Southerland Page, Inc.

REGISTERED ARCHITECT WENDY TEAS HIGH 16677 STATE OF TEXAS

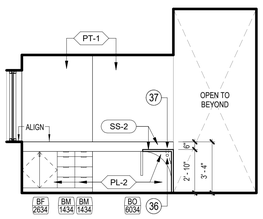
10/07/2020

ARCHITECTURAL - ENLARGED PLANS

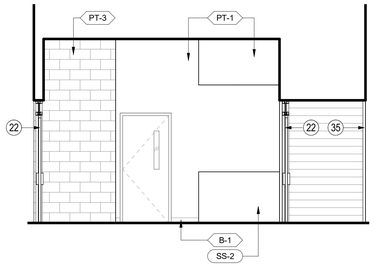
DRAWN BY: WJC	CHECKED BY: ST
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GCRB
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 26 JUNE 2020

A-110M
SHEET NUMBER

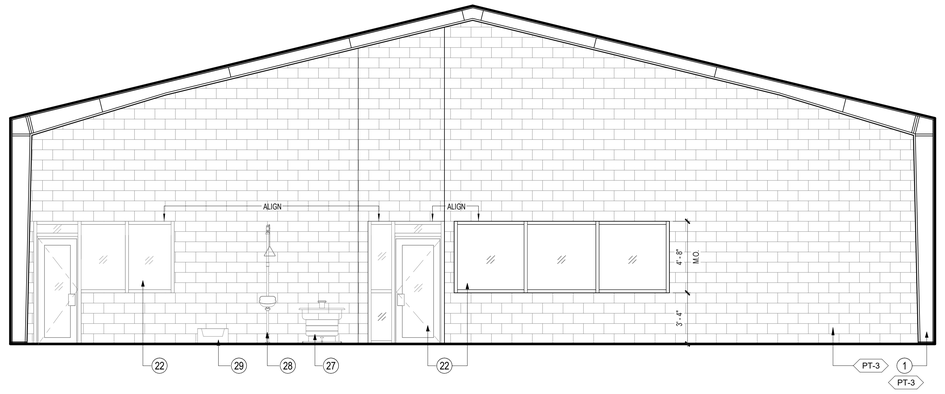
FILE PATH: C:\Users\vgandhi\Documents\418198-A-R19-CENTRAL-SHOP_vgandhiV3V3P.rvt
USER NAME:
DATE STAMP: 10/7/2020 6:34:16 PM



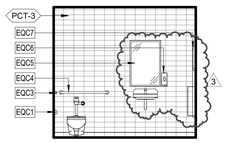
7 ELEVATION
SCALE: 1/4" = 1'-0"



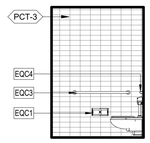
4 ELEVATION
SCALE: 1/4" = 1'-0"



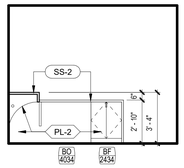
1 ELEVATION
SCALE: 1/4" = 1'-0"



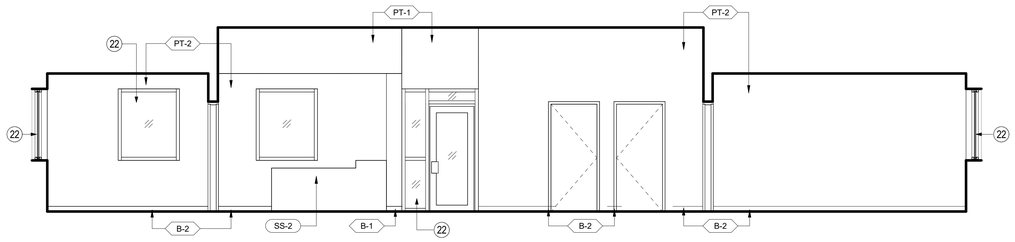
8 ELEVATION
SCALE: 1/4" = 1'-0"



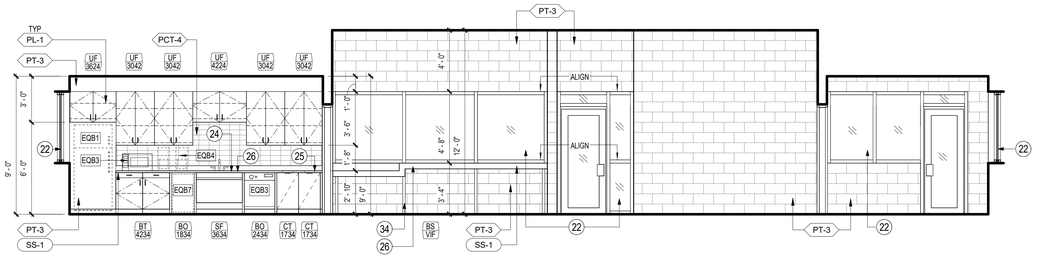
6 ELEVATION
SCALE: 1/4" = 1'-0"



5 ELEVATION
SCALE: 1/4" = 1'-0"



2 ELEVATION
SCALE: 1/4" = 1'-0"



3 ELEVATION
SCALE: 1/4" = 1'-0"

KEYED NOTES

NUMBER	DESCRIPTION
1	PEMB STRUCTURE
2	PEMB GUTTER ASSEMBLY
3	PEMB DOWNSPOUT ASSEMBLY WITH DAYLIGHT
4	PEMB STRUT
5	PEMB SHEAR BRACE
6	INSULATED PEMB WALL ASSEMBLY WITH METAL PANEL FINISH
7	SURFACE-MOUNTED LIGHTING FIXTURE. RE: ELECTRICAL
8	WIND-DRIVEN-RAIN-RESISTANT LOUVER ASSEMBLY. 50% MIN. FREE AREA. MIAMI-DADE APPROVED. B.O.D. IS RUSKIN ELF6375DXD. RE: MECHANICAL
9	PEMB TRIM
10	SLAB-ON-GRADE. RE: STRUCTURAL
11	OH COILING DOOR. RE: DOOR SCHEDULE
12	8" DIAMETER 42" HIGH PAINTED GALVANIZED STEEL CRASH BOLLARD WITH CONCRETE FILL AND DOME TOP
13	MECHANICAL ASSEMBLY. RE: MECHANICAL
14	INSULATED PEMB ROOFING ASSEMBLY
15	6" CAST-IN-PLACE CONCRETE PAD. FRAMED AT PERIMETER WITH STEEL ISLAND FORMS BY RED-E-FORM
16	GALVANIZED PAINTED HSS TUBE
17	OVERHEAD FAN. RE: MECHANICAL
18	CRANE RAIL BEAM
19	CRANE RAIL BEAM SUPPORT. ANCHORED TO PEMB STRUCTURE ABOVE
20	CHAIN-HUNG RADIANT HEATER. RE: MECHANICAL
21	COMPRESSED AIR LINE
22	INSULATED GLAZED EXTERIOR STOREFRONT
24	TAS-COMPLIANT STAINLESS STELL SINK ASSEMBLY
25	10" DIAMATER STAINELESS STEEL GROMMET
26	SOLID SURFACE COUNTERTOP
27	STAINLESS STEEL HAND WASHING SINK. RE: PLUMBING
28	STAINLESS STEEL EYE WASHING STATION. RE: PLUMBING
29	MOP SINK. RE: PLUMBING
30	INSULATED LIGHT-WALL ASSEMBLY
31	PEMB METAL PANEL INTERIOR WALL WAISNCOT TO 8'
32	QUICK-CONNECT COMPRESSED AIR TERMINUS. RE: PLUMBING
33	PROVIDE MANUAL ROLLER SHADE AT WINDOW HEAD
34	PROVIDE TUBE STEEL FRAMING TO SUPPORT FLOATING COUNTERTOP ASSEMBLY. PROVIDE SUPPORTS AT WALLS AT EITHER END
35	PEMB TRIM
36	CORD CHASE AND WHIP
37	2" CORD GROMMET WITH PASS-THRU COVER
41	UNINSULATED PEMB ROOFING ASSEMBLY
42	COMPRESSED FLUID LINES. RE: PLUMBING
43	DAYLIT GUTTER DISCHARGE
44	UTILITY TRENCH
45	HOSE REEL STAND. RE: PLUMBING AND ELECTRICAL
46	VAPOR BARRIER
47	GALVANIZED MCNICHOLS TRAFFIC-RATED BAR-STOCK PANEL. 3' LENGTHS
48	GALVANIZED EMBED ANGLE
49	GALVANIZED SUPPORT ANGLE
50	LINE OF PEMB STRUCTURE ADJACENT
51	PROVIDE MEDIUM BROOM FINISH AT EXTERIOR CONCRETE PATIO
52	POWER & DATA J-BOX HOSTED UNDER HOSE REEL COLUMN. RE: ELECTRICAL & TELECOM
53	DUPLEX DATA TERMINAL IN STEEL HOUSING MOUNTED TO HOSE-REEL STAND. RE: TELECOM
54	PREFINISHED SHEETMETAL FLASHING
55	PEMB WEATHER BARRIER
56	PEEL-N-STICK MASTIC
57	PEMB WALL PANEL
58	RETICULATED DOURLE SEALANT JOINT WITH BACKER-ROD AND WEEP BAFFLES
59	INTERIOR WALL FINISH. RE: FINISH PLAN
60	CMU WALL. RE: STRUCTURAL
61	1" THICK COMPRESSIBLE FILLER
62	3/4" FIRE-TREATED PLYWOOD
63	TREATED BLOCKING

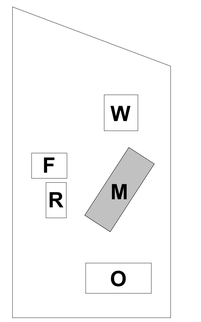
GENERAL NOTES

1. RE: G-110 FOR DOOR, HARDWARE, EQUIPMENT AND FINISH SCHEDULES.
2. RE: G-100 FOR CODE AND LIFE-SAFETY ANALYSIS.
3. RE: A-101S FOR SITE PLAN.
4. RE: MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DATA.
5. EQMS (MOBILE COLUMN LIFT) NOT SHOWN IN DRAWINGS.
6. WALLS TO RECIEVE PT-1 FINISH WITH B-1 BASE U.N.O.
7. PROVIDE SCHLUTER STRIP IN ANNODIZED ALUMINUM AT ALL TILE OUTSIDE CORNERS AND ALL OPEN TILE WALL EDGES.
8. ALL EXPOSED PEMB RIBS AND EXPOSED STRUCTURAL STEEL TO RECIEVE PT-3 FINISH.
9. M-8 WALLS TO RECIEVE PT-3 FINISH U.N.O.
10. MAINTENANCE SHOP FLOOR TO RECIEVE SC-3 FINISH.

LEGEND

A	COLUMN GRID DESIGNATIONS
1	KEYED NOTE KEYED NOTES ONLY APPLY TO THIS SHEET
1 / A-301	SECTION TAG
1 / A-201	ELEVATION TAG
ROOM NAME / S1	ROOM NAME ROOM NUMBER
S1	DOOR TAG
SC-2	FLOOR OR CEILING FINISH TAG
SS-1	MATERIAL FINISH TAG
PT-2	WALL FINISH TAG
	FLOOR FINISH TRANSITION

KEY PLAN (NOT TO SCALE)



Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Daily & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Daily & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities

5115 TX-3
Dickinson, Texas 77539

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	Addendum No. 03	07 OCT 2020

PROFESSIONAL SEALS
Firm Registration No. 15868
Page Southerland Page, Inc.

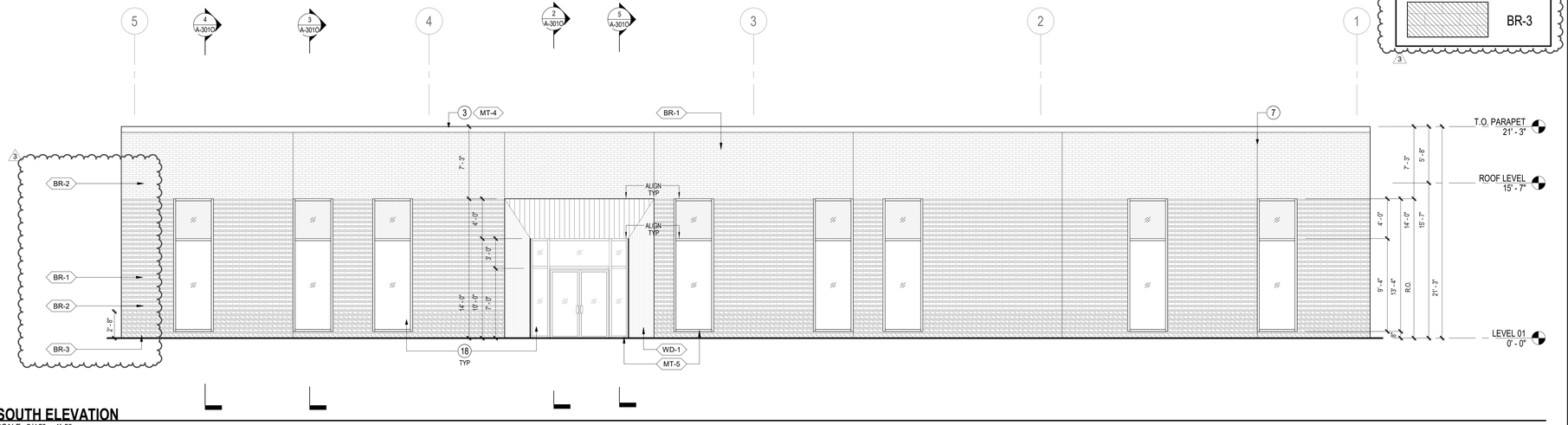
10/07/2020

ARCHITECTURAL - INTERIOR ELEVATIONS

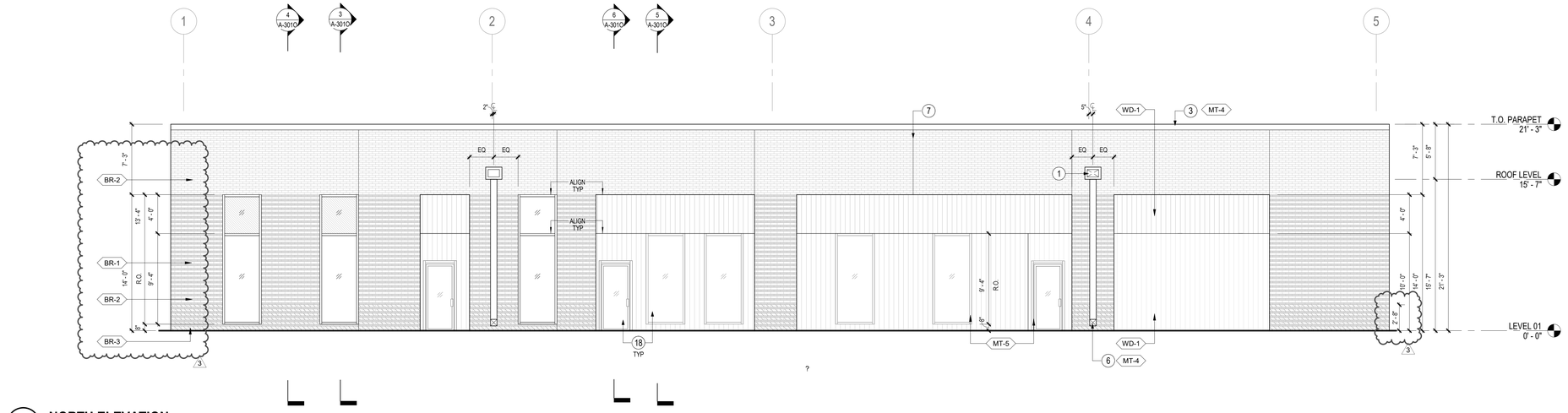
DRAWN BY: WJC	CHECKED BY: ST
PROJECT NUMBER: 418198	PROJECT ABBREVIATION: GCRB
ORIGINAL ISSUE: ISSUE FOR PERMIT	DATE: 26 JUNE 2020

A-111M
SHEET NUMBER

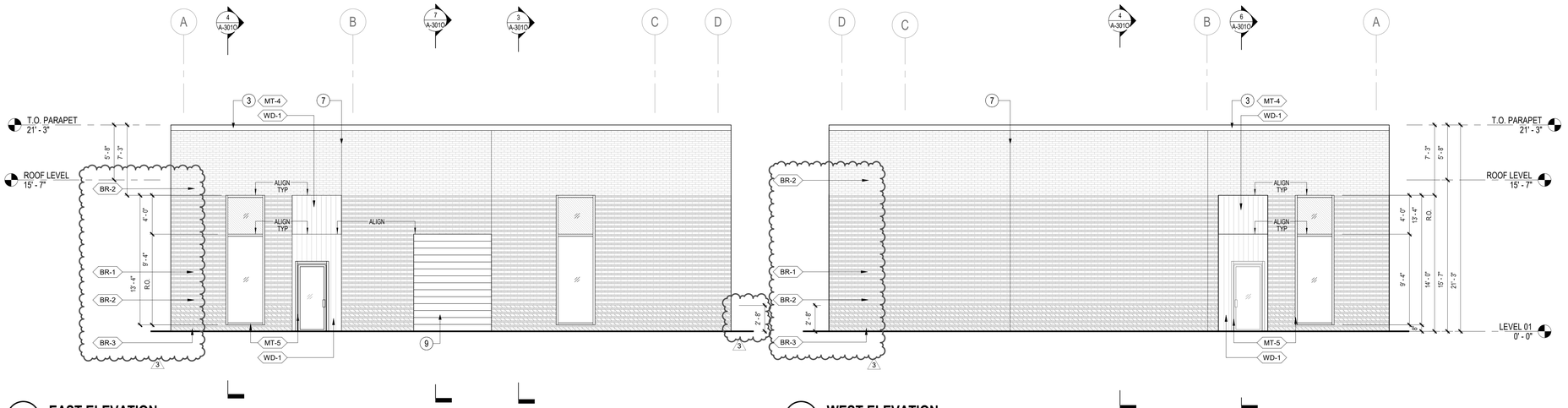
FILE PATH: C:\Users\vgandhi\Documents\418198-A-R19-CENTRAL-SHOP_vgandhiV3P.rvt
USER NAME:
DATE STAMP: 10/7/2020 6:34:18 PM



1 SOUTH ELEVATION
SCALE: 3/16" = 1'-0"

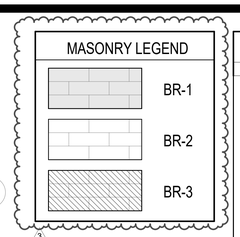


2 NORTH ELEVATION
SCALE: 3/16" = 1'-0"



4 EAST ELEVATION
SCALE: 3/16" = 1'-0"

3 WEST ELEVATION
SCALE: 3/16" = 1'-0"



KEYED NOTES

NUMBER	DESCRIPTION
1	CATCHMENT BOX WITH SPILLOVER AND DOWNSPOUT
2	THRU-WALL SCUPPER OPENING
3	PREFINISHED SHEETMETAL COPING
4	ROOF CRICKETING
5	INSULATED ROOF HATCH
6	PREFINISHED SHEETMETAL DOWNSPOUT
7	VERTICAL BRICK CONTROL JOINTS. TYPICAL
8	MANUAL ROLLER WINDOW SHADES AT ALL EXTERIOR WINDOWS. U.N.O.
9	INSULATED OVERHEAD COILING DOOR ASSEMBLY. RE: DOOR SCHEDULE
10	PROVIDE SCHLUTER STRIP
11	WALL-MOUNTED LIGHTING FIXTURE. RE: ELECTRICAL
12	FLOOR-MOUNTED CEILING-BRACED TOILET PARTITION
13	WALL-HUNG URINAL PARTITION
14	SOLID PHENOLIC Z-LOCKERS. 12"Wx18"Dx72"H
15	TAS-COMPLIANT LOCKER BENCH. 12"Wx18"Dx42"W
16	STEEL ACCESS HATCH. FIELD PAINT TO MATCH PT-3. COORIDNATE FINAL HEIGHT AND SIZE WITH PLUMBING ROUGH-IN BEHIND
17	OSHA-COMPLIANT STEEL SAFETY LADDER LEADING TO ROOF HATCH ABOVE. SUPPORTED BY STEEL TUBES IN WALL. RE: STRUCTURAL
18	INSULATED GLAZED EXTERIOR STOREFRONT
19	TAS-COMPLIANT STAINLESS STEEL SINK ASSEMBLY
20	10" DIAMATER STAINELESS STEEL GROMMET
21	SOLID SURFACE COUNTERTOP
22	VENT HOOD. RE: MECHANICAL
23	INSULATED MODIFIED BITUMEN ROOFING ASSEMBLY
24	ANCHORED BRICK VENEER MASONRY ASSEMBLY
25	INSULATED SPANDREL GLAZING PANEL
26	VISION GLAZING PANEL
27	VAPOR BARRIER
28	SLAB-ON-GRADE. RE: STRUCTURAL
29	ADJACENT PAVING. RE: CIVIL
30	CHICKEN-WIRE FENCING PROTECTING INSULATION WHERE NO GYP IS PRESENT. TYPICAL
31	STEEL STRUCTURE. RE: STRUCTURAL
32	FLUID APPLIED WEATHER BARRIER
33	CONTINUOUS BOARD INSULATION
34	SHEATHING
35	COLD-FORMED METAL FRAMING WALL WITH BATT INSULATION
36	PREFINISHED SHEETMETAL FLASHING
37	INTERIOR CEILING. RE: RCP
38	COLD-FORMED FRAMING
39	NATURALLY-VENTILATED EXTERIOR SOFFIT. ALL STEEL WITHIN SOFFIT TO BE HOT-DIP GALVANIZED. RE: STRUCTURAL
40	COMPOSITE WOOD EXTERIOR LAP PLANKING
41	PROVIDE MEDIUM BROOM FINISH AT EXTERIOR CONCRETE PATIOS
42	INTERIOR GYP FINISH
43	UNINSULATED INTERIOR STOREFRONT ASSEMBLY
44	OPERABLE PARTITION ASSEMBLY
45	PROVIDE SUPPORTING STEEL FOR OPERABLE PARTITION
46	MASONRY DRAIN MATERIAL
47	WEEP
48	NONSHRINK GROUT
49	COMPRESSIBLE FILLER
50	TRACK RUNNER SET IN CONTINOUS BED OF SEALANT
52	FLEXIBLE FLASHING
53	TREATED 2BY BLOCKING
54	RETICULATED DOUBLE SEALANT JOINT WITH BACKER ROD AND WEEP BAFFLES
55	MODIFIED BITUMEN WALL AND PARAPET FLASHING
56	PARAPET WALL SHEATHING
57	CARBON-FIBER Z-CLIPS
58	INSECT SCREEN
59	PLYWOOD SUBSTRATE
60	INTERIOR STUD FRAMING
61	PROVIDE ARCHITECTURALLY-RECESSED KNOX BOX
62	MASONRY ANCHOR
63	COMPOSITE WOOD CORNER TRIM
64	END-DAM WITH INTEGRAL BASE FLASHING

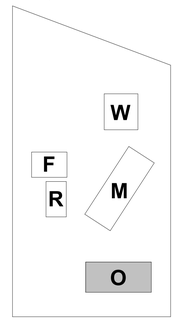
GENERAL NOTES

1. RE: G-110 FOR DOOR, HARDWARE, EQUIPMENT AND FINISH SCHEDULES.
2. RE: G-100 FOR CODE AND LIFE-SAFETY ANALYSIS.
3. RE: A-101S FOR SITE PLAN.

LEGEND

- A — COLUMN GRID DESIGNATIONS
- 1 — KEYED NOTE; KEYED NOTES ONLY APPLY TO THIS SHEET
- 1 / A-301 — SECTION TAG
- 1 / A-201 — ELEVATION TAG
- ROOM NAME / S1 — ROOM NAME; ROOM NUMBER
- S1 — DOOR TAG
- SC-2 — FLOOR OR CEILING FINISH TAG
- SS-1 — MATERIAL FINISH TAG
- PT-2 — WALL FINISH TAG
- FLOOR FINISH TRANSITION

KEY PLAN (NOT TO SCALE)



Page

Page Southerland Page, Inc.
1100 Louisiana, Suite One
Houston, TX 77002
pagethink.com

TEL 713 871 8484
FAX 713 871 8440

ARCHITECTURE / ENGINEERING / INTERIORS / PLANNING / CONSULTING
Austin / Dallas / Denver / Dubai / Houston / Mexico City / San Francisco / Washington DC / International Affiliate Offices

Civil Engineering
Daily & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

Structural Engineering
Daily & Associates
9800 Richmond Avenue
Suite 460
Houston, TX 77042
713 337 8881

MEP Engineering
Page
1100 Louisiana
Suite One
Houston, TX 77002
713 871 8484

Low Voltage & Security
4b Technology Group, LLC
390 Glenborough Dr.
Suite 290
Houston, TX 77067
832 249 9379

Landscape Architecture
Knudson, LP
8588 Katy Freeway
Suite 441
Houston, TX 77024
713 463 8200

Galveston County Road & Bridge Department Facilities

5115 TX-3
Dickinson, Texas 77539

REVISION HISTORY

REVISION	DESCRIPTION	DATE
3	Addendum No. 03	07 OCT 2020

PROFESSIONAL SEALS
Firm Registration No. 15868
Page Southerland Page, Inc.

10/07/2020

ARCHITECTURAL - EXTERIOR ELEVATIONS

DRAWN BY	CHECKED BY
WJC	ST
PROJECT NUMBER	PROJECT ABBREVIATION
418198	GCR&B
ORIGINAL ISSUE	DATE
ISSUE FOR PERMIT	26 JUNE 2020

A-2010
SHEET NUMBER

FILE PATH: C:\Users\vgandhi\Documents\418198-A-R19-CENTRAL-OFFICE_vgandhiV3V3P.rvt
USER NAME:
DATE STAMP: 10/7/2020 6:30:07 PM