

CIVIL PLANS

# TEEL CROSSING PHASE 2

LOT 4, BLOCK A, TEEL CROSSING SHOPPING CENTER I  
MAIN STREET  
FRISCO, TEXAS  
CITY PROJECT #SP17-0094



VICINITY MAP  
N.T.S.

SHEET LIST TABLE		
SHEET NUMBER	SHEET TITLE	REVISION DATE
C-0	COVER	5/23/2018
	SURVEY	10/12/2017
EXH-1	EASEMENT LAYOUT EXHIBIT	5/23/2018
SP-1	SITE PLAN	4/11/2018
SP-2	OPEN SPACE PLAN	4/11/2018
C-1	GENERAL NOTES	5/23/2018
C-1.1	DEMOLITION PLAN	5/23/2018
C-2	EROSION CONTROL PLAN	5/23/2018
C-3	EROSION CONTROL DETAILS	5/23/2018
C-4	DIMENSION CONTROL AND PAVING PLAN	5/23/2018
C-4.1	DIMENSION CONTROL AND PAVING PLAN, GRADING PLAN	5/23/2018
C-5	GRADING PLAN	5/23/2018
C-6	EXISTING DRAINAGE AREA MAP	5/23/2018
C-7	PROPOSED DRAINAGE AREA MAP	5/23/2018
C-8	DRAINAGE PLAN	5/23/2018
C-9	UTILITY PLAN	5/23/2018
C-10	CONSTRUCTION DETAILS	5/23/2018
C-11	CITY STANDARD DETAILS	5/23/2018
S-1	TREE SURVEY	5/23/2018
L-1	LANDSCAPE PLAN	5/23/2018
L-2	LANDSCAPE DETAILS	5/23/2018
L-3	EXISTING TREE PLAN	5/23/2018
IR-1	IRRIGATION PLAN	5/23/2018
IR-2	IRRIGATION DETAILS	5/23/2018
	**FOR REFERENCE ONLY	
C-8	DRAINAGE AREA MAP - PROPOSED CONDITION	5/19/2016
C-9	DRAINAGE PLAN	5/19/2016
C-10	DRAINAGE PROFILE	5/19/2016
C-11	DRAINAGE CALCULATION	4/11/2018
C-12	UTILITY PLAN	5/19/2016

PLAN SUBMITTAL LOG	
DESCRIPTION	SUBMITTAL DATE
1ST SUBMITTAL	11/6/2017
2ND SUBMITTAL	3/7/2018
3RD SUBMITTAL	4/11/2018
4TH SUBMITTAL	5/7/2018
5TH SUBMITTAL	5/23/2018

ENGINEER

**CLAY MOORE**  
ENGINEERING

TEXAS REGISTRATION #14199  
1903 CENTRAL DR  
SUITE #406  
BEDFORD, TX 76021  
PH 817.281.0572  
FAX 817.281.0574  
CONTACT: MATT MOORE, PE  
EMAIL: MATT@CLAYMOOREENG.COM

ARCHITECT

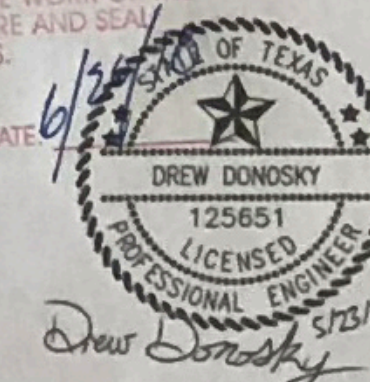
DUANE MEYERS ARCHITECT  
560 PR 2422  
UNCERTAIN, TX 75661  
TEL 903.484.4040  
CONTACT: DUANE MEYERS  
EMAIL: DRMEYERS@MAC.COM

MAY 2018

RELEASED FOR CONSTRUCTION  
ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE  
PLANS REMAINS WITH THE ENGINEER WHO PREPARED  
THEM. IN RELEASING THESE PLANS, THE CITY OF FRISCO  
MUST RELY UPON THE ADEQUACY OF THE WORK OF THE  
DESIGN ENGINEER WHOSE SIGNATURE AND SEAL  
APPEAR ON THESE PLANS.

RELEASED: \_\_\_\_\_

DATE: 6/25/2018



**STOP!**  
**CALL BEFORE YOU DIG**  
DIG TESS  
1-800-DIG-TESS  
(@ least 72 hours prior to digging)

C-0

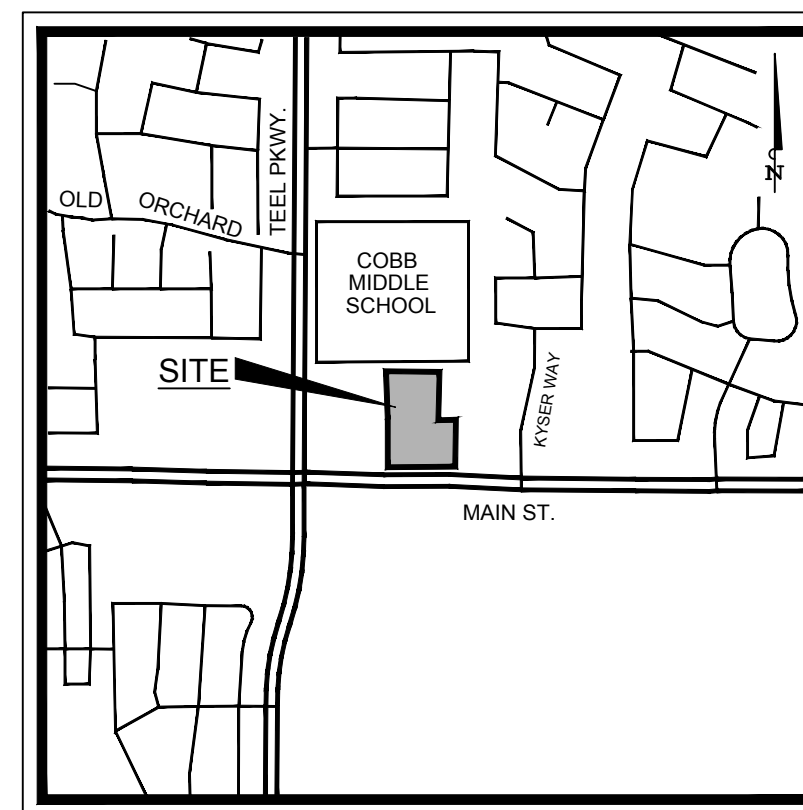
TEEL CROSSING PHASE 2 - FRISCO, TEXAS



CIVIL PLANS

# TEEL CROSSING PHASE 2

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MAIN STREET  
FRISCO, TEXAS  
CITY PROJECT #SP17-0094

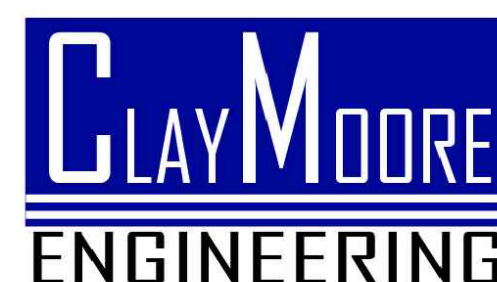


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560 PR 2422  
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MAY 2018

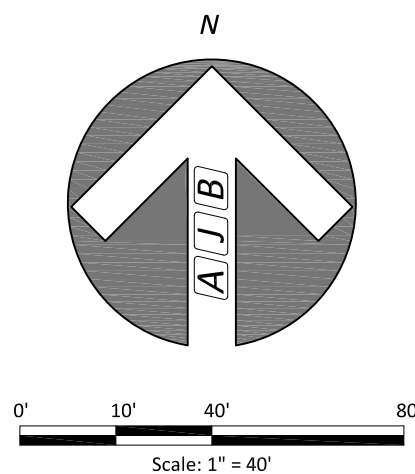


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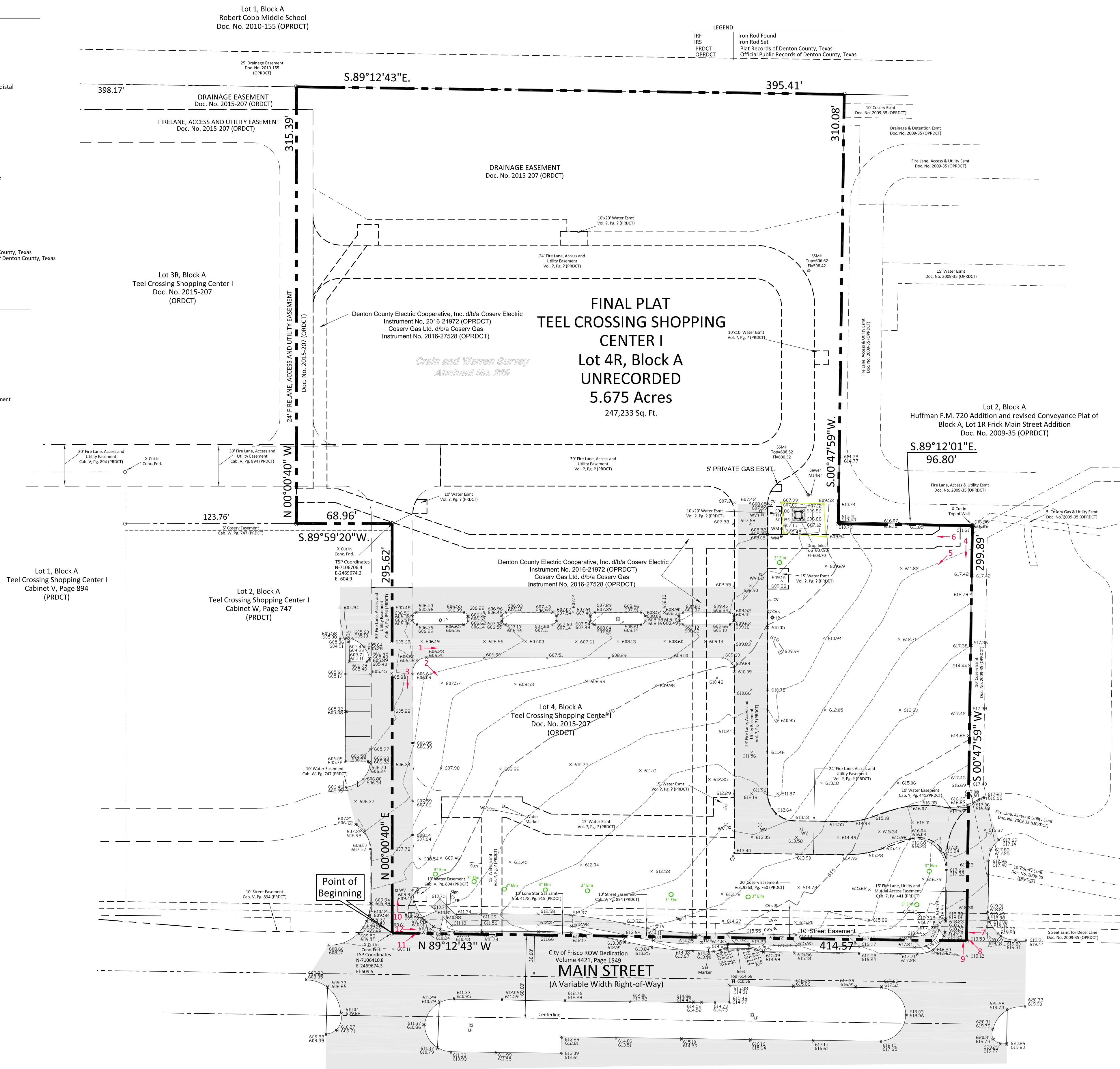
TEEL CROSSING PHASE 2 - FRISCO, TEXAS





LEGEND	
IRF	Iron Rod Found
IRS	Iron Rod Set
AC	Air Conditioner
CO	Clean Out
TV	Cable Television Box
CMP	Corrugated Metal Pipe
CV	Control Valve
EMH	Electric Manhole
EB	Electric Box
EM	Electric Meter
ETP	Electric Transformer Pedestal
FH	Fire Hydrant
FP	Flag Pole
GMH	Gas Manhole
GM	Gas Meter
GV	Gas Valve
GL	Ground Light
GT	Grease Trap
GW	Guy Wire
LP	Light Pole
MB	Mailbox
MW	Monitoring Well
PP	Power Pole
RCP	Reinforced Concrete Pipe
SSMH	Sanitary Sewer Manhole
SSMH	Storm Sewer Manhole
SP	Signal Pole
TMH	Telephone Manhole
TP	Telephone Pedestal
TSB	Traffic Signal Box
TB	Telephone Box
WV	Water Valve
WM	Water Meter
WMH	Water Manhole
PRDCT	Plat Records of Denton County, Texas
OPRDCT	Official Public Records of Denton County, Texas

LEGEND	
---	Boundary
---	Right-of-Way
---	Adjoining
---	Top of Slope
---	Toe of Slope
---	Center Line Street
---	Water Line
---	Sanitary Sewer Line
---	Storm Sewer Line
---	Telephone Line
---	Electric Line
---	Gas Line
---	Building Line
---	Utility Easement
---	Water Easement
---	Sanitary Sewer Easement
---	Drainage Easement
---	Fence
---	QTS
---	MCI
---	CHP
---	SWB



GENERAL NOTE:  
THE USE OF THE WORD "CERTIFY" OR "CERTIFICATE" USED HEREON CONSTITUTES AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THOSE  
FACTS OF FINDINGS WHICH ARE THE SUBJECT OF THE CERTIFICATION, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER  
EXPRESSED OR IMPLIED.

## TOPOGRAPHIC SURVEY TEEL CROSSING SHOPPING CENTER I PROPOSED LOT 4R, BLOCK A

CRAIN AND WARREN SURVEY ABSTRACT NO. 229  
CITY OF FRISCO  
DENTON COUNTY, TEXAS

Client:  
ClayMoore Engineering  
1903 Central Drive, Suite 406  
Bedford, Texas 76021

Scale: 1" = 40'  
Date: October 12, 2017  
Technician: Spradling  
Drawn By: Spradling

Checked By: A.J. Bedford  
P.C.: Cryer/Spradling  
File: TEEL FRISCO 10-12-17  
Job No. 552-036  
GF No.

301 N. Alamo Rd. \* Rockwall, Texas 75087  
(972) 722-0225, www.ajbedfordgroup.com  
TBPLS REG#10118200

Sheet:  
1  
of: 2

**AJ Bedford Group, Inc.**  
Registered Professional Land Surveyors

FLOOD STATEMENT: According to Community Panel No. 48121C0440G, dated April 18, 2011 of the Federal Emergency Management Agency, National Flood Insurance Program map this property is within Flood Zone "X", which is not a special flood hazard area. If this site is not within an identified special flood hazard area, this flood statement does not imply that the property and/or the structures thereon will be free from flooding or flood damage. On rare occasions, greater floods can and will occur and flood heights may be increased by man-made or natural causes. This statement shall not create liability on the part of the Surveyor











## OPEN SPACE PLAN

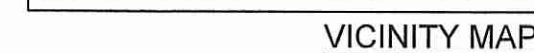
[illegible]

DESIGN:	MBT
DRAWN:	MBT
CHECKED:	DD
DATE:	4/11/2018

SP-2

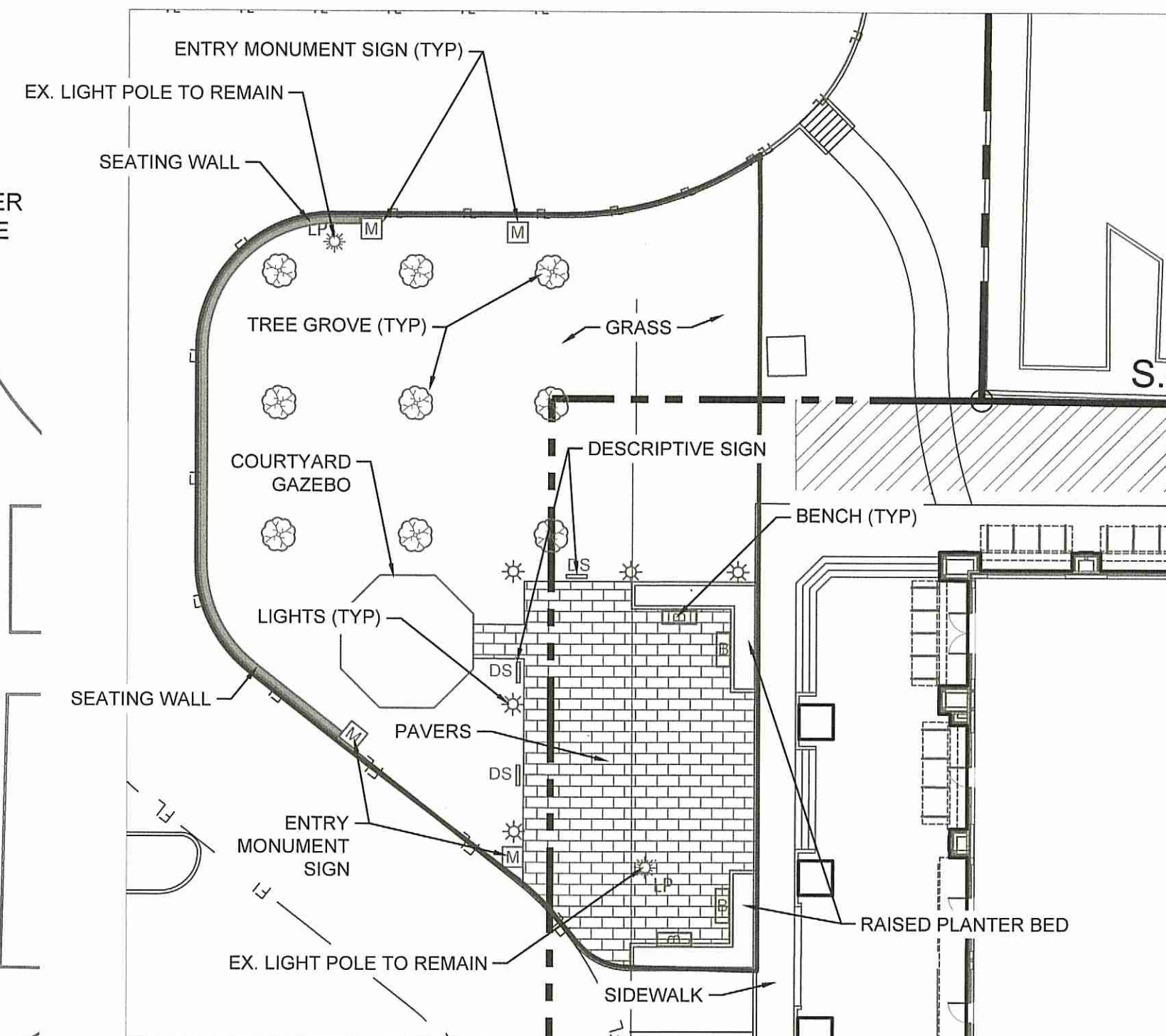
File No. 2017-165

SP17-0094

OPEN SPACE SUMMARY

LOT	ZONING	PROPOSED USE	GROSS LOT SIZE (ACRES)	LOT SIZE (SQ. FT.)	USABLE OPEN SPACE		WATER RESOURCE ZONE			
					REQ.	PROV.	REQ. PROV.			
BUILDING A PHASE 1	R	RETAIL / INLINE RESTAURANT / SCHOOL / BANK	3.85	167,716	7%	11,740	21575 (12.8%)	15 SF PER PARKING	1,845	2,537
BUILDING B PHASE 2	R (SUP118)	RETAIL / INLINE RESTAURANT / SCHOOL / BANK	1.83	79,517	10%	7,952	7558 (9.5%)	15 SF PER PARKING	1,350	1,372
TOTAL			5.68	247,233	-	19,692	29,133	-	3,195	3,909

\*\* 2,499SF OF OPEN SPACE IS PROVIDED ON LOT 5 + 5,059 SF OF NEW OPEN SPACE IS PROVIDED IMMEDIATELY ADJACENT ON LOT 4R FOR A TOTAL OF 7,558 SF OF OPEN SPACE.



DETAIL - A  
SCALE 1"=10'

### LEGEND

AMENITIES IN OPEN SPACE (8 POINTS REQUIRED)

ITEM	PROVIDED	POINTS
GAZEBO/PAVILION	1	3
ENTRY MONUMENT SIGNS	2	2
TREE GROVES	1	1
DESCRIPTIVE SIGNS	2	1
RAISED PLANTER BED	2	1
TOTAL	8	8

**REVISED**

3:25 pm, May 08, 2018

**APPROVED**

By Arabella Lopez at 3:25 pm, May 08, 2018

SITE PLAN  
CITY PROJECT #SP 17-0094

OWNER:

TEEL CROSSING PARTNERS LTD.  
25 HIGHLAND PARK VILLAGE, SUITE 100-464  
DALLAS, TX 75205  
PH: 214.390.3444

APPLICANT:

CLAYMOORE ENGINEERING, INC.  
1903 CENTRAL DRIVE, SUITE #406  
BEDFORD, TX 76021  
PH: 817.281.0572

SURVEYOR:

AJ BEDFORD GROUP INC  
301 N. ALAMO RD  
ROCKWALL, TX 75087  
PH: 972.722.0225

**LEGAL DESCRIPTION:**

5.675 AC  
TEEL CROSSING SHOPPING CENTER 1  
BLOCK A, LOT 4R (PHASE 1) & BLOCK A, LOT 5 (PHASE 2)

CITY  
FRISCO

STATE:  
TEXAS

COUNTY  
DENTON

SURVEY:  
WARREN

ABSTRACT NO.  
229



DESIGNED BY: DENG TORRES  
PLOT DATE: 5/23/2018 08 PM  
LOCATION: Z:\PROJECTS\PROJECTS\2017-165 VCM FRISCO TEEL PHASE 2\CADD\SHEETS\0-1 GENERAL NOTES.DWG  
LAST SAVED: 4/11/2018 10:00 AM

CITY OF FRISCO GENERAL CONSTRUCTION NOTES

GENERAL NOTES FOR ALL CONSTRUCTION ACTIVITIES

1. ALL CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS.
2. TESTING AND INSPECTION OF MATERIALS SHALL BE PERFORMED BY A COMMERCIAL TESTING LABORATORY APPROVED BY THE CITY. CONTRACTOR SHALL FURNISH MATERIALS OR SPECIMENS FOR TESTING, AND SHALL FURNISH SUITABLE EVIDENCE THAT THE MATERIALS PROPOSED TO BE INCORPORATED INTO THE WORK ARE IN ACCORDANCE WITH THE SPECIFICATIONS.
3. CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT ROW INSPECTION DIVISION OF PUBLIC WORKS AT 972-292-5820 FOR A PERMIT TO WORK WITHIN CITY ROW.
5. CONTRACTORS ARE ALLOWED TO MAKE CONNECTIONS TO THE CITY WATER SYSTEM BY OPENING AN ACCOUNT AND RENTING A FIRE HYDRANT METER FROM THE DEPARTMENT OF PUBLIC WORKS. THE COMPANY OR INDIVIDUAL IS SOLELY RESPONSIBLE FOR THE COST OF THE RENTAL EQUIPMENT AND ITS PROPER USE WITHIN THE CITY OF FRISCO WATER SYSTEM. THE COMPANY OR INDIVIDUAL IS ALSO RESPONSIBLE FOR THE COST OF THE WATER USED. REFER TO THE CITY OF FRISCO FIRE HYDRANT METER POLICY (HTTP://FRISCO.TEXAS.GOV/DOCUMENTS/INTERVIEW/11332) FOR FEES AND REQUIREMENTS.
6. CONTRACTOR MUST KEEP AVAILABLE ON-SITE. AT ALL TIMES, APPROVED CONSTRUCTION PLANS AND COPIES OF ANY REQUIRED PERMITS ALONG WITH THE APPROPRIATE VERSIONS OF THE FOLLOWING REFERENCES: CITY OF FRISCO ENGINEERING STANDARDS, NCTCOG SPECIFICATIONS, TxDOT SPECIFICATIONS, TxDOT STANDARD DRAWINGS.
7. ALL SHOP DRAWINGS, WORKING DRAWINGS OR OTHER DOCUMENTS WHICH REQUIRE REVIEW BY THE CITY, SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF SCHEDULED CONSTRUCTION TO ALLOW NO LESS THAN 14 CALENDAR DAYS FOR REVIEW AND RESPONSE BY THE CITY.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONSTRUCTION SURVEYING AND STAKING AND SHALL NOTIFY THE CITY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH ANY WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL SURVEY MARKERS INCLUDING IRON RODS, PROPERTY CORNERS, OR SURVEY MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE ROW DURING CONSTRUCTION. ANY SURVEY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.
10. CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE AND WEEKLY PROGRESS REPORTS.
11. CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND DRIVEWAYS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS AT ALL TIMES. CONTRACTOR SHALL CLEAN UP AND REMOVE ALL LOOSE MATERIAL RESULTING FROM CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST.
12. THE EXISTENCE AND LOCATIONS OF THE PUBLIC AND FRANCHISE UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE DEPTH AND LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING, TRENCHING, OR DRILLING AND SHALL BE REQUIRED TO TAKE ANY PRECAUTIONARY MEASURES TO PROTECT ALL LINES SHOWN AND / OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PUBLIC AGENCIES AND FRANCHISE UTILITIES 48 HOURS PRIOR TO CONSTRUCTION. (TEXAS811 1-800-344-8377) THE CONTRACTOR MAY BE REQUIRED EXPOSE THESE FACILITIES AT NO COST TO THE CITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO UTILITIES IF THE DAMAGE IS CAUSED BY NEGLIGENCE OR FAILURE TO HAVE LOCATES PERFORMED.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES OR ADJACENT PROPERTIES DURING CONSTRUCTION. ANY REMOVAL OR DAMAGE TO EXISTING FACILITIES SHALL BE REPLACED OR REPAIRED TO EQUAL OR BETTER CONDITION BY THE CONTRACTOR.
14. CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR OTHER CONSTRUCTION ITEMS ON ADJACENT PROPERTIES OR RIGHT-OF-WAY WITHOUT THE PRIOR WRITTEN CONSENT OF THE PROPERTY OWNER AND THE CITY.
15. TEMPORARY FENCING SHALL BE INSTALLED PRIOR TO THE REMOVAL OF EXISTING FENCING. TEMPORARY FENCING SHALL BE REMOVED AFTER PROPOSED FENCING IS APPROVED BY THE CITY. ALL TEMPORARY AND PROPOSED FENCING LOCATIONS SHALL BE SUBJECT TO FIELD REVISIONS AS DIRECTED BY THE CITY.
16. UNSUABLE EXCAVATED MATERIAL, OR CONSTRUCTION DEBRIS SHALL BE REMOVED AND DISPOSED OF OFF-SITE AT AN APPROVED DISPOSAL FACILITY BY THE CONTRACTOR AT HIS EXPENSE.
17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A NEAT AND ACCURATE RECORD OF CONSTRUCTION FOR THE CITY'S RECORDS.

GENERAL NOTES FOR TRAFFIC CONTROL

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE LATEST REVISION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND TxDOT BARRICADE AND CONSTRUCTION STANDARDS.
2. CONTRACTOR SHALL NOT IMPEDIE TRAFFIC ON EXISTING STREETS, DRIVEWAYS, ALLEYS, OR FIRE LANES OPEN TO THE PUBLIC. IN THE EVENT THE CONSTRUCTION WORK REQUIRES THE CLOSURE OF AN EXISTING STREET, ALLEY, OR FIRE LANE, THE CONTRACTOR SHALL REQUEST THE ROAD CLOSURE THROUGH THE CITY TRAFFIC DIVISION 972-292-5400 A MINIMUM OF 48 HOURS IN ADVANCE OF THE REQUESTED CLOSURE. CLOSURES WILL NOT BE ALLOWED PRIOR TO 9:00 A.M. OR AFTER 3:30 P.M., MONDAY THROUGH FRIDAY UNLESS OTHERWISE APPROVED BY THE CITY.
3. PLACING OF CONCRETE PAVEMENT:
  - A. MACHINE FINISHED: A SLIP-FORM PAVING MACHINE SHALL BE USED FOR ALL PUBLIC STREETS AND ALLEYS UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF ENGINEERING SERVICES.
  - B. HAND FINISHED: HAND FINISHED PAVEMENT IS PERMITTED FOR TURN LANES, DECELERATION LANES, DRIVEWAY APPROACHES, OR PANEL REPLACEMENT OF PUBLIC STREETS OR ALLEYS.
4. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL PEDESTRIAN WORK MEETS OR EXCEEDS THE CURRENT AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE CONTRACTOR SHALL REMOVE AND REPLACE ANY CONSTRUCTED OR INSTALLED ITEMS NOT MEETING THE CURRENT ADAAG AND TAS REQUIREMENTS AT NO ADDITIONAL COST TO THE CITY.

GENERAL NOTES FOR TRAFFIC SIGNALS AND STREET LIGHTING

1. ALL TRAFFIC SIGNAL AND STREET LIGHTING CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS UNLESS OTHERWISE NOTED. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE MOST CURRENT NATIONAL ELECTRICAL CODE, CITY AND TxDOT SPECIFICATIONS AND STANDARDS.
2. CONTRACTOR SHALL NOTIFY THE TRAFFIC DEPARTMENT (TRACY NICHOLS) AT LEAST 7 BUSINESS DAYS PRIOR TO ANY WORK. PROVIDE A CONSTRUCTION SCHEDULE AND WEEKLY PROGRESS REPORTS TO THE TRAFFIC DEPARTMENT, AND NOTIFY THE TRAFFIC DEPARTMENT AT LEAST 48 HOURS PRIOR TO SIGNAL TURN-ON.
3. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICES WITH THE CITY AND EITHER ONCOR OR COSERV REPRESENTATIVES (ACCORDING TO THEIR RESPECTIVE AREA).
4. CONTRACTOR SHALL COORDINATE WITH THE ELECTRIC COMPANY TO DE-ENERGIZE ANY OVERHEAD OR UNDERGROUND POWER LINES. ANY COST ASSOCIATED WITH DE-ENERGIZING THE POWER LINE AND/OR ANY OTHER PROTECTIVE MEASURES REQUIRED SHALL BE AT NO COST TO CITY.
5. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY AND TxDOT/NTTA (IF WITHIN TxDOT/NTTA ROW) PRIOR TO BEGINNING ERECTION OF POLES, LUMINARIES AND STRUCTURES LOCATED NEAR ANY OVERHEAD OR UNDERGROUND UTILITIES.
6. PROPOSED CONCRETE FOUNDATION AND CONDUIT ALIGNMENT SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE CITY PRIOR TO INSTALLATION.
7. CONTRACTOR SHALL CONTACT THE CITY TRAFFIC DEPARTMENT (BETWEEN 8 AM - 5PM) FOR INSPECTION PRIOR TO POURING ANY CONCRETE FOUNDATION AND DIGGING FOR CONDUIT RUNS AT LEAST 48 HOURS IN ADVANCE.
8. CONTRACTOR SHALL HAVE A QUALIFIED INSA LEVEL II OR A TRF453 CERTIFIED TECHNICIAN ON THE PROJECT SITE TO PLACE THE TRAFFIC SIGNALS IN OPERATION.
9. ELECTRICAL WORK SHALL BE PERFORMED BY CERTIFIED PERSONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT AND MAY BE REJECTED AS UNSUITABLE FOR USE DUE TO POOR WORKMANSHIP. THE REQUIRED ELECTRICAL CERTIFICATION COURSE IS AVAILABLE AND IS SCHEDULED PERIODICALLY BY TEEEX. ALTERNATIVELY, THE CONTRACTOR MAY PURCHASE AN ENTIRE COURSE FOR THEIR PERSONNEL TO BE HELD AT A TIME AND LOCATION OF THEIR CHOICE AS NEGOTIATED THROUGH TEEEX. FOR MORE INFORMATION, CONTACT: TEXAS ENGINEERING EXTENSION SERVICE (TEEX), TxDOT ELECTRICAL SYSTEM COURSE, (979) 845-6563.
10. THE CONTRACTOR SHALL NOT PLACE PEDESTRIAN CROSSWALK AND STOP BAR PAVEMENT MARKINGS UNTIL SIGNAL IS OPERATIONAL.

11. ALL LIGHTING POLES, FIXTURES, AND ARMS WHICH ARE REMOVED SHALL BE DELIVERED TO THE CITY PUBLIC WORKS FACILITY (11300 RESEARCH ROAD, FRISCO, TEXAS 75034) BY THE CONTRACTOR AND WILL REMAIN THE PROPERTY OF THE CITY. CONTACT THE TRAFFIC DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF DELIVERY.
12. DURING THE 30-DAY TRAFFIC SIGNAL TEST PERIOD, CONTRACTOR SHALL RESPOND TO AND DIAGNOSE ALL TROUBLE CALLS WITH QUALIFIED PERSONNEL WITHIN A REASONABLE TRAVEL TIME FROM A DALLAS ADDRESS, BUT NOT MORE THAN TWO (2) HOURS MAXIMUM. CONTRACTOR SHALL REPAIR ANY MALFUNCTIONS OF SIGNAL EQUIPMENT SUPPLIED BY CONTRACTOR ON THE PROJECT. A LOCAL TELEPHONE NUMBER (NOT SUBJECT TO FREQUENT CHANGES) WHERE TROUBLE CALLS ARE TO BE RECEIVED ON A 24-HOUR BASIS SHALL BE PROVIDED TO THE CITY BY THE CONTRACTOR. APPROPRIATE REPAIRS SHALL BE MADE WITHIN 24 HOURS. THE CONTRACTOR SHALL KEEP A RECORD OF EACH TROUBLE CALL REPORTED IN THE LOGBOOK PROVIDED BY THE CITY AND SHALL NOTIFY THE CITY OF EACH TROUBLE CALL. THE ERROR LOG IN THE MALFUNCTION MANAGEMENT UNIT (MMU) SHALL NOT BE CLEARED DURING THE 30-DAY TEST PERIOD WITHOUT THE APPROVAL OF THE CITY.
13. TEXAS STATE LAW, ARTICLE 1436C, MAKES IT UNLAWFUL TO OPERATE EQUIPMENT OR MACHINES WITHIN 10-FEET OF ANY OVERHEAD ELECTRICAL LINES UNLESS DANGER AGAINST CONTACT WITH HIGH VOLTAGE OVERHEAD LINES HAS BEEN EFFECTIVELY GUARDED AGAINST PURSUANT TO THE PROVISIONS OF THIS ARTICLE. WHEN CONSTRUCTION OPERATIONS REQUIRE WORKING NEAR AN OVERHEAD ELECTRICAL LINE, THE CONTRACTOR SHALL CONTACT THE OWNER/OPERATOR OF THE OVERHEAD ELECTRICAL LINE TO MAKE ADEQUATE ARRANGEMENTS AND TO TAKE NECESSARY SAFETY PRECAUTIONS TO ENSURE THAT ALL LAWS, ELECTRICAL LINE OWNER/OPERATOR REQUIREMENTS AND STANDARD SAFETY PRACTICES ARE MET.

GENERAL NOTES FOR STORM DRAIN

1. ALL STORM DRAIN CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN PRIOR TO THE PRE-CONSTRUCTION MEETING.
3. TWO WEEKS PRIOR TO CONNECTING TO EXISTING STORM DRAIN LINES, THE CONTRACTOR SHOULD INSPECT THE EXISTING LINE AND CONTACT THE STORMWATER INSPECTOR SHOULD THE LINE NEED TO BE CLEARED.
4. CONTRACTOR SHOULD INSPECT ALL STORM DRAIN OUTFALLS NO EARLIER THAN TWO WEEKS PRIOR TO FINAL INSPECTION AND REMOVE ALL SILT AND DEBRIS.

GENERAL NOTES FOR WATER AND WASTEWATER

1. ALL WATER AND WASTEWATER CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN PRIOR TO THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL NOT OPERATE EXISTING VALVES. CONTACT THE CITY'S PUBLIC WORKS DEPARTMENT TO REQUEST VALVE CHANGES.
- GENERAL NOTES FOR LANDSCAPING
  - A. ALL LANDSCAPING CONSTRUCTION, INSTALLATION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
  - B. CONTRACTOR SHALL AVOID DAMAGE TO EXISTING TREES. WHEN NECESSARY, TREES AND SHRUB TRIMMING FOR CONSTRUCTION SHALL BE PERFORMED BY CERTIFIED TREE WORKER OR UNDER THE DIRECTION OF A REGISTERED LANDSCAPE ARCHITECT OR CERTIFIED ARBORIST.
  - C. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING LANDSCAPE IRRIGATION SYSTEMS. DAMAGE TO EXISTING IRRIGATION SYSTEMS AND LANDSCAPE MATERIALS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT NO COST TO CITY.
  - D. PRIOR TO OBTAINING A GRADING PERMIT OR SCHEDULING A PRE-CONSTRUCTION MEETING:
    - A. WHERE TRANSPLANTING OR TREE REMOVAL IS REQUIRED, CONTRACTOR MUST APPLY FOR A TREE PERMIT. CONTACT DEVELOPMENT SERVICES LANDSCAPE ARCHITECT FOR TREE PERMIT.
    - B. ALL TREE MARKINGS AND PROTECTIVE FENCING MUST BE INSTALLED BY THE CONTRACTOR AND BE INSPECTED BY THE CITY'S LANDSCAPE ARCHITECT.
  - E. ALL TREES WHICH ARE TO REMAIN ON SITE SHALL BE PROTECTED WITH A 4" TALL BRIGHTLY COLORED PLASTIC FENCE PLACED AT THE DRIP LINE OF THE TREES.
  - F. TREES TO BE REMOVED MAY BE CHIPPED AND USED FOR MULCH ON SITE OR HAULED OFF-SITE. BURNING OF REMOVED TREES, STUMPS, OR FOLIAGE REQUIRES WRITTEN APPROVAL BY THE FIRE DEPARTMENT.
  - G. PLANT MATERIALS SHALL NOT IMPEDIE OR OBSTRUCT VISION OR ROUTE OF TRAVEL FOR VEHICULAR, PEDESTRIAN, OR BICYCLE TRAFFIC ALONG CITY RIGHT-OF-WAY, VISIBILITY EASEMENTS, SIDEWALKS OR OTHER EASEMENTS.
  - H. NO SIGNS, WIRES, OR OTHER ATTACHMENTS OTHER THAN THOSE OF A PROTECTIVE NATURE SHALL BE ATTACHED TO ANY TREE TO REMAIN ON SITE.

GENERAL NOTES FOR IRRIGATION

1. ALL IRRIGATION CONSTRUCTION, INSTALLATION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. A PERMIT FROM THE BUILDING INSPECTION DIVISION IS REQUIRED FOR EACH IRRIGATION SYSTEM.
3. CONTRACTOR SHALL NOTIFY THE PARKS DEPARTMENT PRIOR TO ANY MODIFICATIONS TO THE EXISTING IRRIGATION SYSTEM.
4. CONTRACTOR SHALL CONTACT THE PARKS DEPARTMENT TO COORDINATE WORK PRIOR TO COMMENCING WORK ON ANY EXISTING IRRIGATION AND PRIOR TO ANY INSTALLATION OF NEW IRRIGATION.
5. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING LANDSCAPE IRRIGATION SYSTEMS. DAMAGE TO EXISTING IRRIGATION SYSTEMS AND LANDSCAPE MATERIALS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT NO COST TO CITY.
6. CONTRACTOR SHALL PROGRAM EACH CONTROLLER ZONE BASED ON SPRINKLER TYPE, PLANT VARIETY, SOIL CHARACTERISTIC, SLOPE AND SOLAR ORIENTATION AS DESIGNATED ON THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE CITY PARKS DEPARTMENT FOR APPROVAL OF THE CONTROLLER SETTINGS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH FRANCHISE UTILITY PROVIDER TO PROVIDE POWER TO EACH IRRIGATION CONTROLLER. CONTRACTOR SHALL HAVE UNDERGROUND POWER LINES INSTALLED FROM POWER SOURCE UP TO THE CONTROLLER. CONTRACTOR SHALL MEET CONTROLLER SPECIFICATIONS FOR POWER REQUIREMENTS.
8. CONTRACTOR SHALL SET A TEMPORARY CONTROLLER TO ESTABLISH LANDSCAPE. ONCE LANDSCAPE IS ESTABLISHED, CONTRACTOR SHALL CONTACT THE CITY'S PARKS AND RECREATION DEPARTMENT FOR ASSISTANCE ON INSTALLATION OF A MOTOROLA CONTROLLER.

GENERAL NOTES FOR EROSION CONTROL & STORMWATER

1. EROSION CONTROL DEVICES SHALL BE INSTALLED ON ALL PROJECTS PRIOR TO BEGINNING CONSTRUCTION AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT IN A CONDITION ACCEPTABLE TO THE CITY.
2. STEEL POSTS SHALL NOT BE USED TO INSTALL EROSION CONTROL MEASURES WITHIN CITY ROW.
3. WIRE REINFORCEMENT SHALL BE USED ON ALL SILT FENCE USED FOR EROSION CONTROL.
4. ASPHALT BAGS SHALL BE PLACED AT CONSTRUCTION ENTRANCES TO PREVENT CURB DAMAGE.
5. GEOTEXTILE FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO STONE PLACEMENT FOR CONSTRUCTION ENTRANCES.
6. NO EQUIPMENT SHALL BE CLEARED ON-SITE, OR OTHER LIQUIDS DEPOSITED AND ALLOWED TO FLOW OVERLAND OR SUBTERRANEAN WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF TREES THAT REMAIN ON SITE. THIS INCLUDES PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, CONCRETE EQUIPMENT WASH WATER, MORTAR OF SIMILAR MATERIALS.

GENERAL NOTES

1. ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE CITY'S DESIGN STANDARDS. IF NO CITY STANDARD IS APPLICABLE, MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE "NORTH TEXAS CONSTRUCTION" COUNCIL OF GOVERNMENTS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL MATERIALS AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. ALL WORK REQUIRED BY THESE PLANS SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THIS PROJECT.
3. THE CONTRACTOR SHALL CONTACT ALL CRANES/UTILITY COMPANIES TO HAVE THEM LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND DEPTH OF ALL FRANCHISE UTILITY SERVICES AND ANY REQUIRED RELOCATION AND/OR EXTENSION SERVICES SHOWN ON THE PLANS. IF ANY ARE CONCEPTUAL.
4. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, POWER POLES, SIGNS, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER GRADE BY THE CONTRACTOR PRIOR TO AND AFTER PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS PROJECT.
5. BRACING OF UTILITY POLES MAY BE REQUIRED BY UTILITY COMPANIES WHEN TRENCHING OR EXCAVATION IS IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE VARIOUS PAY ITEMS FOR INSTALLATION OF PIPE.
6. THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. THE ENGINEER SHALL BE NOTIFIED WHEN CONFLICTING UTILITY GRADES CONFLICT WITH EXISTING UTILITY GRADES.
7. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY, INCLUDING, BUT NOT LIMITED TO FENCES, WALLS, PAVEMENT, GRASS, TREES, AND LAWN SPRINKLER AND IRRIGATION SYSTEMS AT NO COST TO THE OWNER. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT (UNLESS OTHERWISE NOTED) AND IS NOT A SEPARATE PAY ITEM.
8. THE CONTRACTOR SHALL REMOVE SURPLUS MATERIAL FROM THE PROJECT AREA. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND IS NOT A SEPARATE PAY ITEM.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
10. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS. COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.
11. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
12. ALL CORNERS OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS SHALL BE SENT TO THE ARCHITECT, CIVIL ENGINEER, CONTRACTOR AND OWNER DIRECTLY FROM THE TESTING AGENCY.
13. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES AND/OR UTILITY SERVICE COMPANIES SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
14. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUM PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS.
15. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WORK WITH CONSTRUCTION.
16. ALL HORIZONTAL DIMENSIONS GIVEN ARE TO FACE OF CURB AND TO PIPE CENTERLINES UNLESS OTHERWISE NOTED ON PLANS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING RELOCATION AND INSTALLATION OF FRANCHISE UTILITIES NECESSARY FOR ON AND OFF SITE CONSTRUCTION. PAYMENT FOR RELOCATION AND INSTALLATION WILL BE NEGOTIATED ONCE IDENTIFIED.
18. ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE SHOWN.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
20. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE CIVIL ENGINEER A COPY OF RECORD DRAWINGS IDENTIFYING ALL DEVIATIONS OR VARIATIONS FROM THE ORIGINAL PLANS.
21. CONTRACTOR SHALL GIVE NOTICE TO ALL AFFECTED PARTIES AND ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS, AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
22. ALL "RECORD" DIMENSIONS SHALL CONFORM TO THE DESIGN DIMENSIONS PLUS OR MINUS 0.02 FEET. ALL "RECORD" SLOPES SHALL CONFORM TO THE DESIGNED SLOPES PLUS OR MINUS 0.005 FOOT/FOOT.
23. CONTRACTOR SHALL CONTACT CITY BUILDING OFFICIAL TO LEARN OF ANY UNSUAL CONSTRUCTION SEQUENCING REQUIREMENTS THAT THE CITY MAY REQUIRE. THE CONTRACTOR IS CAUTIONED THAT THIS AND PERHAPS OTHER SUCH REQUIREMENTS MAY EXIST AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND COMPLY WITH THEM.

PAVING AND STRIPING NOTES

1. TESTING OF MATERIALS REQUIRED BENEATH ALL PAVING, IMPROVEMENTS SHALL BE PERFORMED BY AN AGENCY, APPROVED BY THE OWNER, FOR TESTING MATERIALS. PROCUREMENT OF THE TESTING LABORATORY AND THE PAVEMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE, BY THE STANDARD TESTING PROCEDURES, THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENTS OF THE CITY AND PROJECTS SPECIFICATIONS.
2. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" TO THE "EXEMPTIONED DEVICES".
3. THE CONTRACTOR SHALL REVIEW LOCATION OF ALL TRAFFIC CONTROL DEVICES WITH THE OWNER PRIOR TO INSTALLATION.
4. SEE M.E.P. PLANS FOR LOCATION OF PROPOSED SLEEVING AND CONDUITS.
5. ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE MOST RECENT VERSION OF THE AMERICANS WITH DISABILITIES ACT OF 1994 AND THE TEXAS ARCHITECTURAL BARRIERS ACT OF 1994, AND ALL ADDENDUMS OR UPDATES.
6. CONTRACTOR SHALL SUBMIT A PAVEMENT JOINTING PLAN TO THE ENGINEER AND OWNER PRIOR TO THE BEGINNING OF ANY CONCRETE PAVING WORK.
7. ANY EXISTING CONCRETE OR ASPHALT SHOWN TO BE REMOVED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR OFF SITE. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND IS NOT A SEPARATE PAY ITEM.
8. CONSTRUCTION JOINTS SHALL BE REQUIRED AT INTERRUPTIONS OF PAVING OPERATIONS SUCH AS THOSE OCCURRING AT THE END OF THE DAY OR DUE TO WEATHER OR EQUIPMENT BREAKDOWN. PLACE AT LONGITUDINAL CONSTRUCTION OR ISOLATION JOINT LOCATIONS.
9. CONTRACTOR TO INSTALL CONSTRUCTION JOINTS IN CONCRETE PAVEMENT AT ALL PCs AND AS CONVENIENT TO PHASING OF POURS. CONCRETE PAVEMENT TO BE CONSTRUCTED WITH ISOLATION JOINTS AROUND THE PERIMETER OF ANY BLOCK OUT IN PAVEMENT AND SAWED DUMMY JOINTS EVERY 12' IN BOTH DIRECTIONS.
10. ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.
11. RADIAL JOINTS SHALL BE NO SHORTER THAN 24".
12. ALL CONSTRUCTION JOINTS SHALL BE SAWED, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH HOT POURED RUBBER JOINT SEALING COMPOUND.

STORM SEWER NOTES

1. CONTRACTOR SHALL FIELD VERIFY THE VERTICAL AND HORIZONTAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CONSTRUCTION MANAGER IMMEDIATELY IF A CONFLICT IS DISCOVERED.
2. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS, GRATE INLETS, AND ALL UTILITIES CROSSING THE STORM SEWER. FLOW LINES AND RIMS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE PROPOSED GRADE PRIOR TO CONSTRUCTION.
3. THE END OF ALL STORM SEWER LATERALS THAT CONNECT TO WORK BY PLUMBER SHALL BE TIGHTLY PLUGGED OR CAPPED AND MARKED 5.0 FEET OUTSIDE THE BUILDING UNTIL FINAL CONNECTIONS ARE MADE BY PLUMBERS CONTRACTOR.
4. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION PERMITS.
6. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
7. EXISTING MANHOLE TOPS AND ALL OTHER DRAINAGE FACILITIES SHALL BE ADJUSTED AS REQUIRED TO MATCH FINAL GRADES AS SHOWN ON GRADING PLAN. NO SEPARATE PAY ITEM.
8. ALL RCP SHALL BE CLASS 3 OR APPROVED EQUAL.

STORM SEWER DISCHARGE AUTHORIZATION

1. IF THE TOTAL DISTURBED AREA EXCEEDS ONE (1) ACRE A NOTICE OF INTENT (N.O.I.) SHALL BE SUBMITTED BY THE CONTRACTOR TO THE TCEQ NO LESS THAN 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN A CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP.

3. A COPY OF THE SWPPP, INCLUDING CONTRACTOR CERTIFICATIONS AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY AND FILED WITH THE CONSTRUCTION PLANS, AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION.
  4. A NOTICE OF TERMINATION (N.O.T.) SHALL BE SUBMITTED TO THE TCEQ BY THE CONTRACTOR DIRECTLY THE SITE HAS 100% OF THE DISTURBED AREAS STABILIZED AND THE SITE NO LONGER HAS STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES (CONSTRUCTION), OR THE N.O.T. PERMITTEE OR CO-PERMITTEE NO LONGER HOLDS OPERATIONAL CONTROL OF THE CONSTRUCTION.
- WATER NOTES
1. EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE DEVELOPER AND THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA.
  2. THE CONTRACTOR IS TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
  3. HORIZONTAL AND VERTICAL BLOCKING FOR WATER LINES HAS BEEN OMITTED FOR CLARITY. HOWEVER, BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS.
  4. TRENCHES WHICH LAY OUTSIDE EXISTING OR FUTURE PAVEMENTS SHALL BE BACK FILLED ABOVE THE TOP OF THE EMBEDMENT WITH TYPE "C" BACKFILL MATERIALS. WHEN TYPE "C" BACKFILL MATERIAL IS NOT SUITABLE AND AT THE DIRECTION OF THE ENGINEER, TYPE "B" MATERIAL SHALL BE USED. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% PROCTOR DENSITY BY MEANS OF TAMPING ONLY. TRENCHES WHICH CROSS UNDER EXISTING OR FUTURE PAVEMENT SHALL BE BACK FILLED PER FIGURE "A" WITH 95% PROCTOR STANDARD DENSITY OF -2, +4 OF OPTIMUM MOISTURE CONTENT.
  5. TOP OF WATER LINES SHALL BE A MINIMUM OF 42" BELOW TOP OF CURB EXCEPT WHERE SHOWN OTHERWISE IN THESE PLANS.
  6. FIRE HYDRANTS SHALL BE A MINIMUM 3' BEHIND THE FACE OF THE CURB UNLESS OTHERWISE SPECIFIED BY THE CITY. FIRE HYDRANTS AND VALVES AS SHOWN ON THESE PLANS ARE SYMBOLIC ONLY.
  7. CORPORATION STOPS SHALL BE TESTED FOR FULL FLOW WHEN THE SYSTEM IS PRESSURE TESTED.
  8. ALL NEW WATER MAINS SHALL BE FULLY PURGED.
  9. ALL 8", 9", 10" & 12" WATER MAINS SHALL BE PVC AWWA C900, DR-14. ALL WATER MAINS USING POLY-WRAPPED DUCTILE IRON PIPE SHALL BE CLASS 51.
  10. FITTINGS SHALL BE DUCTILE IRON AND MECHANICAL JOINT TYPE, WITH "COR-BLUE" BOLTS AND SHALL BE CLASS 250.

SANITARY SEWER NOTES

1. EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE DEVELOPER AND THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA.
2. THE CONTRACTOR IS TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. TRENCHES WHICH LIE OUTSIDE EXISTING PAVEMENTS SHALL BE BACKFILLED ABOVE THE TOP OF THE EMBEDMENT WITH TYPE "C" BACKFILL MATERIAL. WHEN TYPE "C" BACKFILL MATERIAL IS NOT SUITABLE AND AT THE DIRECTION OF THE ENGINEER, TYPE "B" MATERIAL SHALL BE USED. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY BY MEANS OF TAMPING ONLY. TRENCHES THAT CROSS UNDER EXISTING OR FUTURE PAVEMENT SHALL BE BACK FILLED PER FIGURE "A" WITH 95% PROCTOR STANDARD DENSITY OF -2, +4 OF OPTIMUM MOISTURE CONTENT.
4. TYPICAL LOCATION OF SANITARY SEWER PIPE SHALL BE A MINIMUM OF 4'-0" BELOW TOP OF CURB EXCEPT WHERE SHOWN OTHERWISE IN THESE PLANS.
5. FLEXIBLE SANITARY SEWER MAINS SHALL BE TESTED WITH STANDARD 5% DEFLECTION MANDREL.
6. ALL SANITARY SEWER LINES SHALL BE CAPPED WITH AN APPROPRIATE CAP AT THE END OF EACH WORKDAY.
7. WHEN EXISTING GRADES ARE LOWER THAN PROPOSED MAINS, THE FILL AREA OVER THE PIPE SHALL BE FILLED AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY TO THE PROPOSED FINISHED GRADE PRIOR TO INSTALLING ANY MAIN.
8. ALL SEWER SERVICES SHALL BE CONSTRUCTED OF SDR-35 PIPE.

TRAFFIC CONTROL NOTES

1. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS TO THE OWNER, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
2. ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), LATEST VERSION.
3. THE CONTRACTOR SHALL COVER EXISTING SIGNS AND OBLITERATE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE INTENT OF THESE TRAFFIC CONTROL PLANS TO AVOID CONFUSION TO THE TRAVELING PUBLIC.
4. THE CONTRACTOR SHALL UNCOVER EXISTING SIGNS AND REPLACE PAVEMENT MARKINGS IN-KIND AS ORIGINALLY CONFIGURED AT THE END OF CONSTRUCTION OPERATIONS AND PRIOR TO FINAL ACCEPTANCE BY THE OWNER.
5. ALL TEMPORARY SIGNS, BARRICADES, WARNING LIGHTS AND OTHER MISCELLANEOUS TRAFFIC CONTROL MEASURES SHALL BE REMOVED AND ORIGINAL TRAFFIC CONTROL MEASURES REPLACED AT THE END OF THE CONTRACTOR'S CONSTRUCTION OPERATIONS.

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL USE SEDIMENT FILTERS OR OTHER MEASURES APPROVED BY THE ENGINEER AND CONSTRUCTION MANAGER TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM CLOGGING STORM SEWER PIPES OR PROPOSED EXISTING INLETS, OR FROM BEING TRANSPORTED TO ADJACENT PROPERTIES AND STREET RIGHT-OF-WAYS. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE AND SHALL REMAIN IN PLACE UNTIL FINAL GRADING AND PAVING IS COMPLETE AND PERMANENT SOIL STABILIZATION IS ACHIEVED.
2. CONSTRUCTION OPERATIONS SHALL BE MANAGED SO THAT AS MUCH OF THE SITE AS POSSIBLE IS LEFT COVERED WITH EXISTING TOPSOIL AND VEGETATION.
3. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH. THE AREAS SHALL THEN BE SEED (OR SOILED), IRRIGATED, AND MAINTAINED UNTIL PERMANENT STAND OF GRASS IS ACHIEVED WITH A MINIMUM OF 70% COVERAGE. UNLESS OTHERWISE NOTED, PRIVATE LAWN AREAS AND PARKWAYS IN FRONT OF PRIVATE LAWN AREAS DISTURBED BY CONSTRUCTION SHALL BE BACKFILLED WITH BLOCK SOIL SUBGRADE TO THAT DISTURBED.
4. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION TRAFFIC UTILIZES THE STABILIZED ENTRANCE AT ALL TIMES FOR INGRESS/EGRESS TO THE SITE.
5. CONSTRUCTION ENTRANCE:
  - MINIMUM SIZE STONE: 5-INCHES DIAMETER
  - THICKNESS: NOT LESS THAN 8-INCHES
  - LENGTH: AS SHOWN ON PLAN
  - WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS AND EGRESS.
  - MAINTENANCE REQUIREMENTS: AS NECESSARY TO PREVENT TRACKING OR FLOWING MUD INTO PUBLIC RIGHT-OF-WAY OR PARKING AREAS.

6. SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON A PUBLIC ROADWAY SHALL BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE TO A PUBLIC ROADWAY, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL FINES IMPOSED FOR TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR.
7. CONTRACTOR IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE REQUIRED EROSION CONTROL DEVICES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. EROSION CONTROLS SHALL BE REPAIRED OR REPLACED AS INSPECTION DEMANDS NECESSARY. OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ALL EROSION CONTROL DEVICES SHALL BE REMOVED AND SHALL BE DISTRIBUTED ON SITE IN A MANNER NOT CONTRIBUTING TO ADDITIONAL SILTATION. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH IS DISTURBED.
8. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE FILTER BARRIER (OR OTHER METHOD APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT ADVERSE OFF SITE IMPACTS OR STORM WATER QUALITY FROM SILT AND CONSTRUCTION DEBRIS FLOWING ONTO ADJACENT PROPERTIES AS REQUIRED BY THE CITY.
9. BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF CONSTRUCTION AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PRETECT ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
10. CONTRACTOR STAGING AREA TO BE AGREED UPON BY OWNER PRIOR TO BEGINNING CONSTRUCTION.
11. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY THE T.C.E.Q. OR THE GOVERNING CITY.

GRADING NOTES

1. IF A GRADING PERMIT IS REQUIRED FROM THE CITY PRIOR TO STARTING CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMIT AND PAYING ALL ASSOCIATED FEES.
2. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
3. ALL SPOT ELEVATIONS SHOWN ARE TO TOP OF PAVING SURFACE OR FINISHED EARTH GRADE UNLESS NOTED OTHERWISE.
4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM THE EXISTING AND PROPOSED BUILDINGS AND NO PONDING IN PAVED AREAS. CONTRACTOR ADJUSTMENTS TO SPOT GRADES TO MAINTAIN POSITIVE DRAINAGE IS ALLOWED WITH THE PRIOR APPROVAL OF THE ENGINEER. CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PAVING IF ANY AREAS OF POOR DRAINAGE ARE ENCOUNTERED.
5. THE CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES WHICH ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION.
6. ALL EXISTING CONCRETE PAVING, CHANNEL IMPROVEMENTS, SIDEWALK, STRUCTURES AND CURB DEMOLITION SHALL BE REMOVED IN THEIR ENTIRETY AND DISPOSED OF BY THE CONTRACTOR, OFFSITE UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER.
7. ALL CLEARING, GRADING, COMPACTION AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE TO THE GEOTECHNICAL REPORT.
8. GRADING CONTRACTOR TO COORDINATE WITH THE FRANCHISE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
9. THE CONTRACTOR SHALL CALCULATE HIS OWN EARTHWORK QUANTITIES AND USE TO DETERMINE HIS BID ACCORDINGLY.
10. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE HANDICAPPED SLOPES (PER A.D.A. & T.A.S.) EXIST TO AND FROM EVERY DOOR. IN NO CASE SHALL HANDICAP RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5.0 PERCENT. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A. AND T.A.S. COMPLIANCE ISSUES.

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**DR. DREW DONOSKY**  
Professional Engineer  
5/23/2018

**TEEL CROSSING PHASE 2**  
**MAIN STREET**  
**FRISCO, TX**

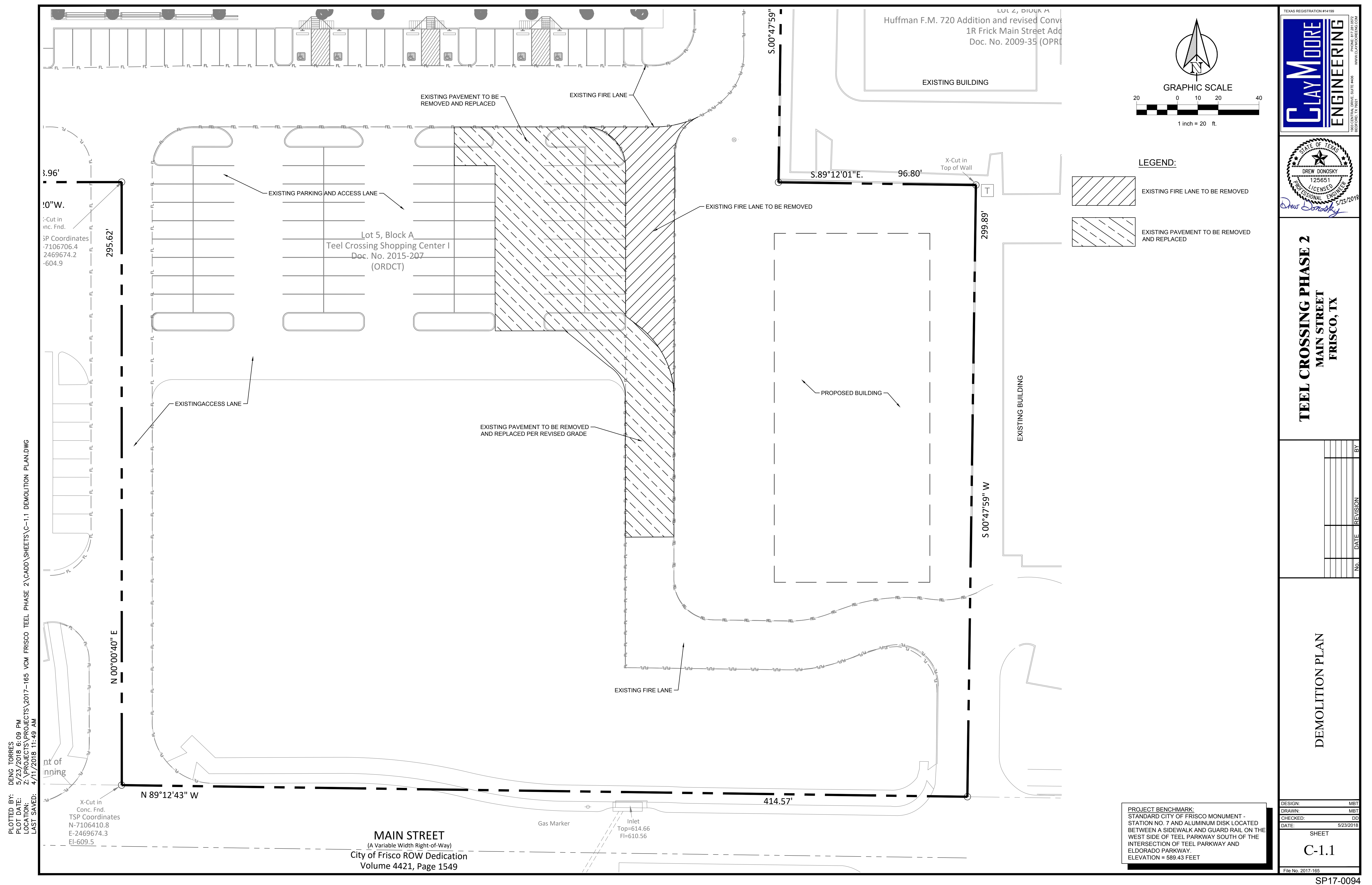
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**GENERAL NOTES**

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DATE: 5/23/2018  
SHEET  
**C-1**  
File No. 2017-165

SP17-0094











DESIGN: MBT  
DRAWN: MBT  
CHECKED: DD  
DATE: 5/23/2018  
PLOT DATE: 5/23/2018 6:09 PM  
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### STANDARD EROSION CONTROL GENERAL NOTES

1. EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES ON THE PROJECT.
2. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE CITY OF FRISCO.
3. IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON SITE.
4. IF OFF-SITE BORROW OR SPOILS SITES ARE USED IN CONJUNCTION WITH THIS PROJECT, THIS INFORMATION SHALL BE DISCLOSED AND SHOWN ON THE EROSION CONTROL PLAN. OFF-SITE BORROW AND SPOILS AREAS ARE CONSIDERED PART OF EROSION CONTROL REQUIREMENTS. THESE AREAS SHALL BE STABILIZED WITH GROUND COVER PRIOR TO FINAL APPROVAL OF THE PROJECT.
5. INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO INSURE THAT THE DEVICES ARE FUNCTIONING PROPERLY. WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN STONES OR MUD IS BEING TRACKED ONTO A PUBLIC ROADWAY THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL OFF SITE SEDIMENTATION. PERIODIC RE-GRADING OR THE ADDITION OF NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFICIENCY OF THE INSTALLATION.
6. CONTRACTOR SHALL HAVE A COPY THE SWPPP ON SITE AT ALL TIMES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTAL OF N.O.I., N.O.T. AND ANY ADDITIONAL INFORMATION REQUIRED BY THE E.P.A. CONTRACTOR SHALL COMPLY WITH ALL E.P.A. STORM WATER POLLUTION PREVENTION REQUIREMENTS.

### EROSION CONTROL SCHEDULE AND PHASING

THE PROJECT SHALL GENERALLY CONFORM TO THE FOLLOWING:

#### PHASE 1 – DEMOLITION/GRADING

- A. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE, AND TREE PROTECTION FENCE ACCORDING TO THE APPROXIMATE LOCATION SHOWN ON GRADING AND EROSION CONTROL PLAN, NOTES, AND DETAIL SHEETS.
- B. BEGIN CLEARING AND GRADING OF SITE.
- C. SEED AND REVEGETATE SLOPES WHERE SHOWN.

#### PHASE 2 – UTILITIES

- A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
- B. INSTALL STORM DRAINS AS SPECIFIED ON PLAN SHEETS.
- C. INSTALL INLET PROTECTION.

#### PHASE 3 – PAVING

- A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE. REMOVE AS NEEDED TO PAVE.
- B. STABILIZE SUBGRADE.
- C. PAVE PARKING LOT AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS.
- D. REMOVE TEMPORARY CONSTRUCTION ENTRANCE.
- E. MAINTAIN INLET PROTECTION.

#### PHASE 4 – LANDSCAPING AND SOIL STABILIZATION

- A. REVEGETATE LOT AND PARKWAYS
- B. LANDSCAPE CONTRACTOR SHALL REVEGETATE ALL AREAS RESERVED FOR LANDSCAPE VEGETATIVE COVERS.
- C. REMOVE EROSION CONTROL DEVICES WHEN GROUND COVER ESTABLISHED.

### B.M.P. MAINTENANCE SCHEDULE

TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT:

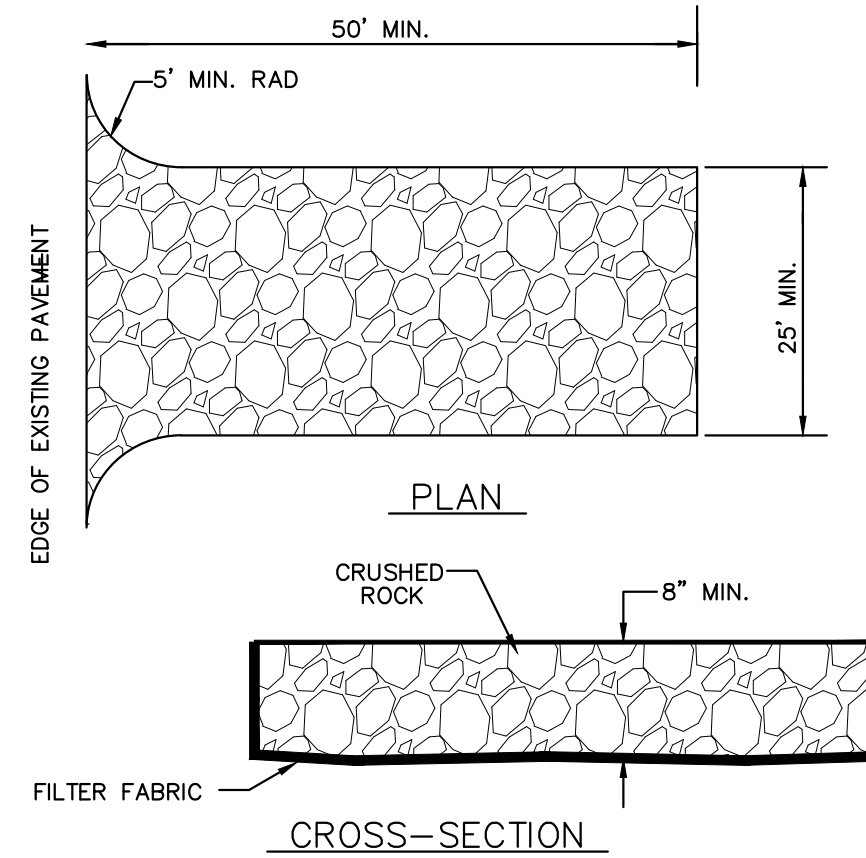
INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE FACILITY IS FUNCTIONING PROPERLY. AGGREGATE PAD SHALL BE WASHED DOWN OR REPLACED WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN THE STONES OR MUD IS BEING TRACKED ONTO THE PUBLIC ROADWAY. RUNOFF FROM WASH DOWN OPERATION SHALL BE FILTERED THROUGH ANOTHER B.M.P. PRIOR TO DRAINING OFF-SITE.

SILT FENCE:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS. SEDIMENT SHALL BE REMOVED FROM BEHIND THE FENCE WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO ONE-THIRD THE HEIGHT OF THE FENCE ABOVE GRADE. FENCE SHALL BE INSPECTED FOR GAPS AT BASE. INSPECT SUPPORTING POSTS AND FILTER FABRIC. REPLACE IF REQUIRED.

INLET PROTECTION:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. SEDIMENT SHALL BE REMOVED FROM THE STORAGE AREA WHEN SEDIMENT DEPTH HAS BUILT UP TO ONE-HALF THE DESIGN DEPTH. IF DE-WATERING OF THE STORAGE VOLUME IS NOT OCCURRING, CLEAN OR REPLACE THE FILTER STONE SURROUNDING THE INLET. CLEAN THE STONE SURFACE THE FIRST FEW TIMES BY RAKING. REPEATED SEDIMENT BUILD-UP WILL REQUIRE FILTER STONE REPLACEMENT.

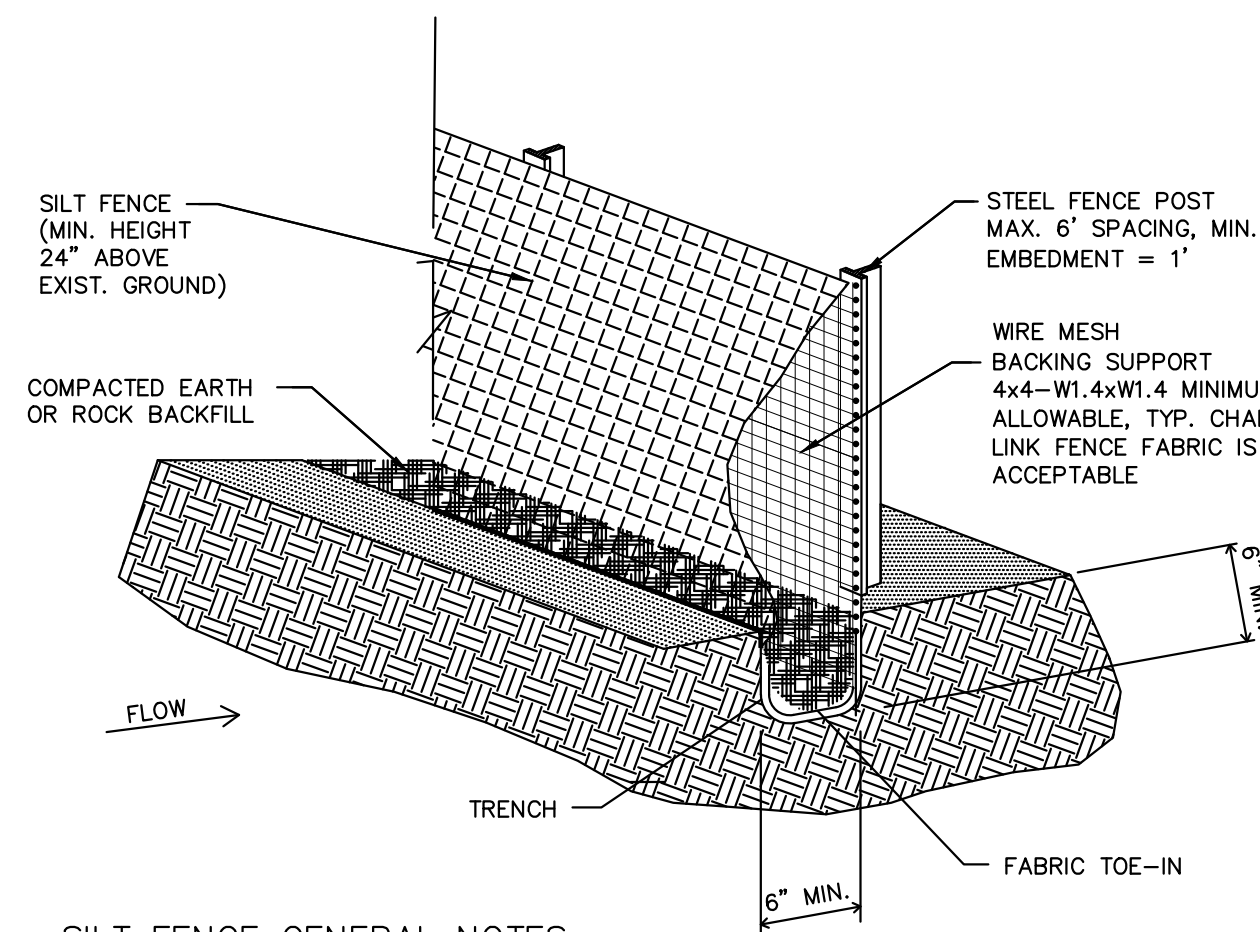


### CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE – 5 INCHES (MIN) ROCK.
2. LENGTH – AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN 8 INCHES.
4. WIDTH – NOT LESS THAN 25 FEET OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING – WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY, MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE – ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
8. CONTRACTOR TO COORDINATE EXACT LOCATION OF THIS DETAIL.

### CONSTRUCTION ENTRANCE

N.T.S.

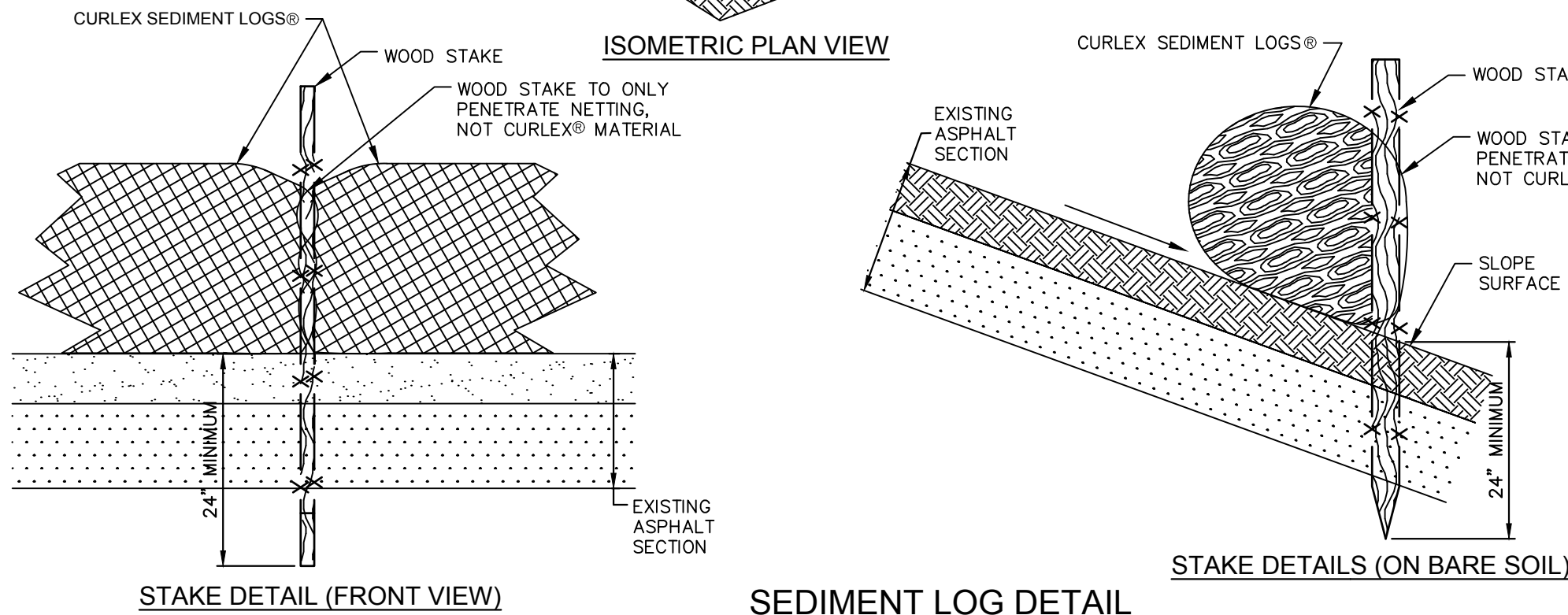
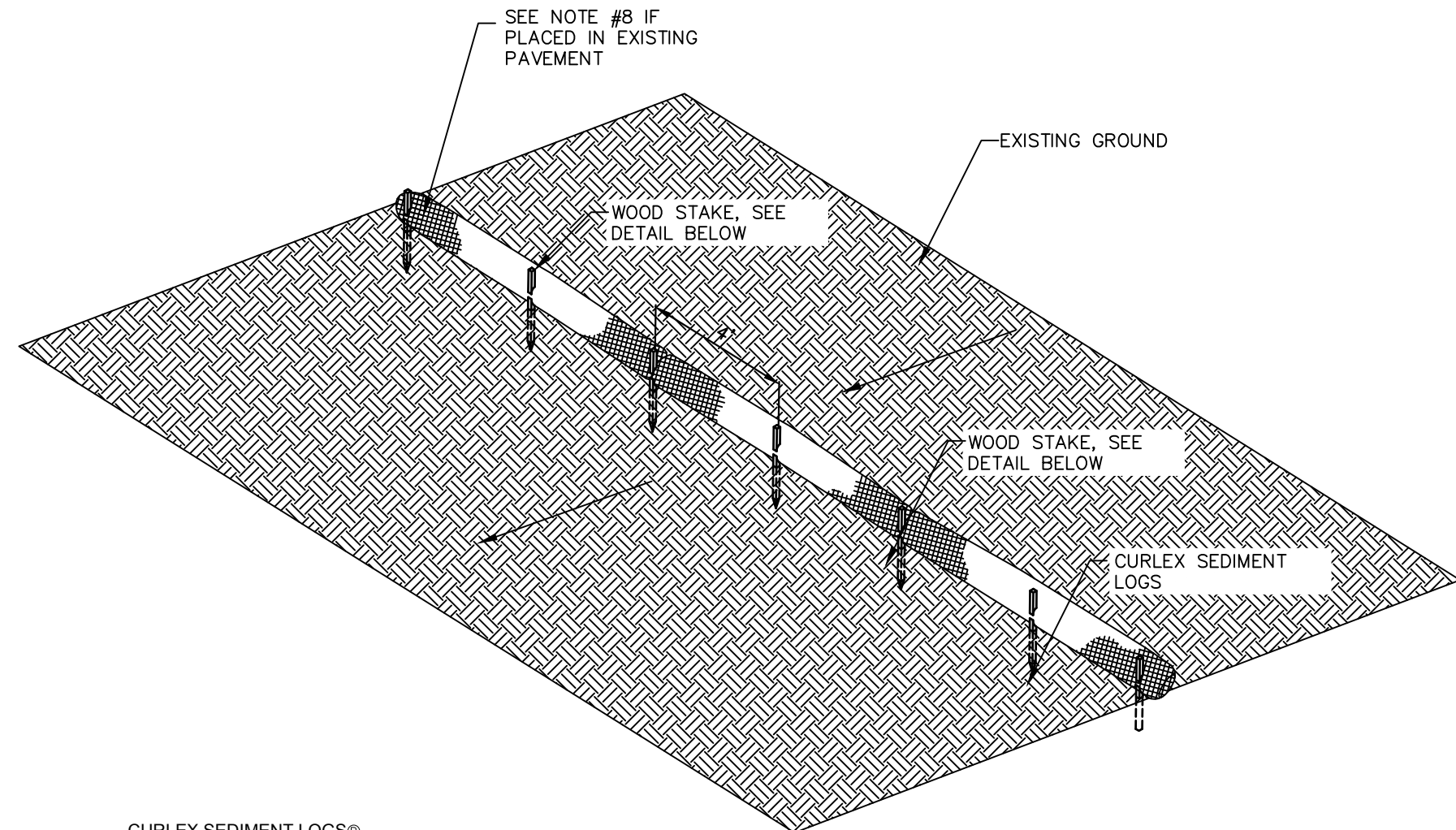


### SILT FENCE GENERAL NOTES

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY WEEK AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
8. NO STEEL POSTS SHALL BE SET WITHIN THE RIGHT-OF-WAY.

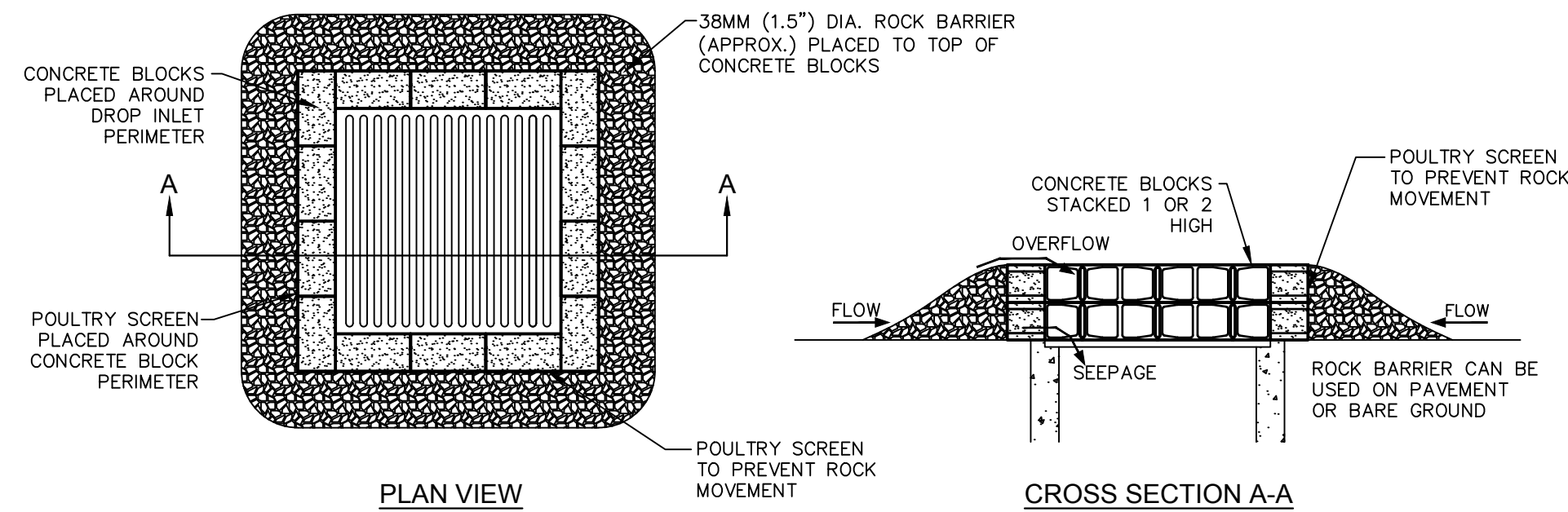
### CONSTRUCTION OF A FILTER BARRIER

N.T.S.



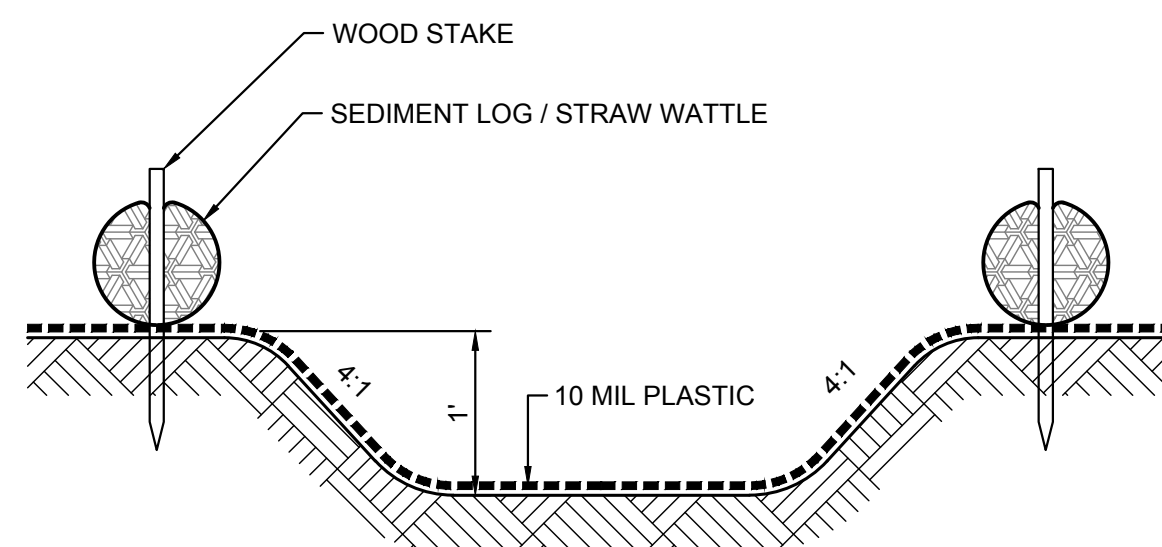
### SEDIMENT LOG DETAIL

N.T.S.



### GRATE INLET PROTECTION DETAIL

N.T.S.



### 12'W x 24'L x 1'D CONCRETE WASH OUT DETAIL

NTS

### NOTES:

1. SEDIMENT LOGS AND STAKES PER AMERICAN EXCELSIOR COMPANY, OR APPROVED EQUAL.
2. USE RICE STRAW SOCK TO CONTOUR SLOPE IN 2" TO 3" TRENCH.
3. PLACE WOODEN STAKES EVERY 4' LEAVING 2" OF STAKE ABOVE WATTLE.
4. PACK SOIL AGAINST WATTLE ON UPHILL SIDE.
5. IF CONTINUOUS ROWS ARE NEEDED, FIRMLY BUTT WATTLES AGAINST EACH OTHER. DO NOT OVERLAP WATTLES.
6. PLACE WATTLES 10' TO 15' APART ON SLOPES.
7. ON SLOPES, STAKES SHOULD BE DRIVEN IN AT AN ANGLE TOWARDS THE UPHILL SIDE.
8. SECURE SEDIMENT LOGS WITH SAND BAG IF PLACED IN EXISTING PAVEMENT.

TEXAS REGISTRATION #14199

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**TEEL CROSSING PHASE 2**  
**MAIN STREET**  
**FRISCO, TX**

NO.	DATE	REVISION	BY

**EROSION CONTROL DETAILS**

DESIGN: MBT  
DRAWN: MBT  
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DATE: 5/23/2018

SHEET

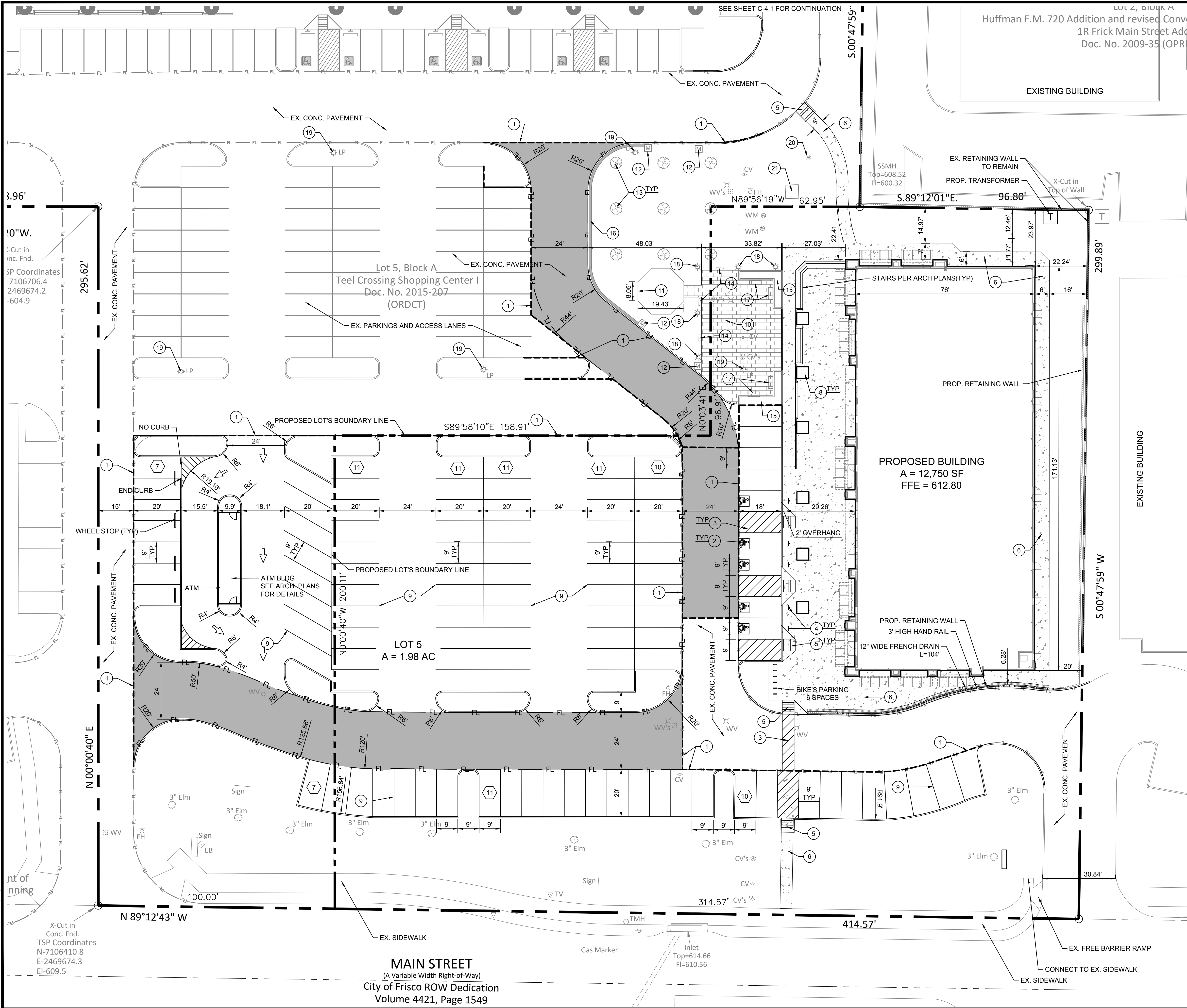
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File No. 2017-165

SP17-0094



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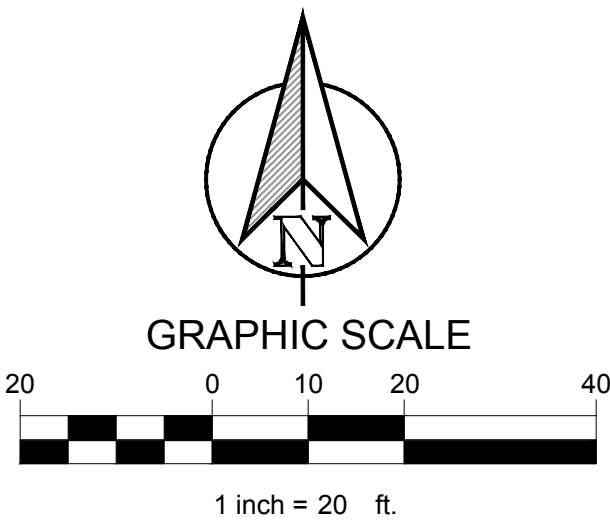


LEGEND	
	STANDARD DUTY CONCRETE PAVEMENT PER DETAIL SHEET C-10
	HEAVY DUTY CONCRETE PAVEMENT PER DETAIL SHEET C-10
	PROPOSED CONCRETE SIDEWALK PER DETAILS SHEET C-10
	PROPOSED DUMPSTER CONCRETE PAVING PER DETAILS SHEET C-10
	PROPOSED CONCRETE CURB AND GUTTER
	PROPERTY LINE
	FULL-DEPTH SAWCUT
	FIRE LANE
	EASEMENT LINE
	PARKING COUNT

CONSTRUCTION SCHEDULE	
1	SAW CUT FULL DEPTH EXISTING PAVEMENT
2	HANDICAP SYMBOL PER DETAILS SHEET C-10
3	PAVEMENT STRIPING PER DETAILS SHEET C-10
4	HANDICAP SIGN PER DETAILS SHEET C-10
5	BARRIER FREE RAMP PER DETAILS SHEET C-10
6	SIDEWALK PER DETAILS SHEET C-10
7	PROPOSED 6' TALL MASONRY DUMPSTER ENCLOSURE PER CoF STANDARDS
8	5' x 5' TREE GRATE
9	4' PARKING STALL STRIPING COLOR: WHITE (TYP)
10	DECORATIVE PAVERS. SEE ARCH. PLANS FOR DETAILS
11	GAZEBO/PAVILION. SEE ARCH. PLANS FOR DETAILS
12	ENTRY MONUMENT SIGN. SEE ARCH. PLANS FOR DETAILS
13	TREE GROOVES. SEE LANDSCAPE PLANS FOR DETAILS
14	DESCRIPTIVE SIGNS. SEE ARCH. PLANS FOR DETAILS
15	RAISED PLANTER BED. SEE ARCH. PLANS FOR DETAILS
16	SEATING WALL, L=99'. SEE ARCH. PLANS FOR DETAILS
17	BENCH. SEE ARCH. PLANS FOR DETAILS
18	DECORATIVE LIGHT POLE. SEE ARCH. PLANS FOR DETAILS
19	EXISTING SITE LIGHT POLE TO REMAIN
20	EXISTING SEWER MANHOLE TO REMAIN
21	EXISTING WYE INLET TO REMAIN

- NOTES:
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  - THE CONTRACTOR SHALL SUBMIT A PAVING JOINT LAYOUT (EXPANSION AND CONTRACTION JOINTS) FOR APPROVAL PRIOR TO CONSTRUCTION.
  - ALL PARKING RADII ARE 3' UNLESS OTHERWISE NOTED.

PROJECT BENCHMARK:  
 STANDARD CITY OF FRISCO MONUMENT -  
 STATION NO. 7 AND ALUMINUM DISK LOCATED  
 BETWEEN A SIDEWALK AND GUARD RAIL ON THE  
 WEST SIDE OF TEEL PARKWAY SOUTH OF THE  
 INTERSECTION OF TEEL PARKWAY AND  
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 ELEVATION = 589.43 FEET



TEXAS REGISTRATION #14199  
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STATE OF TEXAS  
 DREW DONOSKY  
 125651  
 LICENSED PROFESSIONAL ENGINEER  
 5/23/2018  
*Drew Donosky*

**TEEL CROSSING PHASE 2**  
**MAIN STREET**  
**FRISCO, TX**

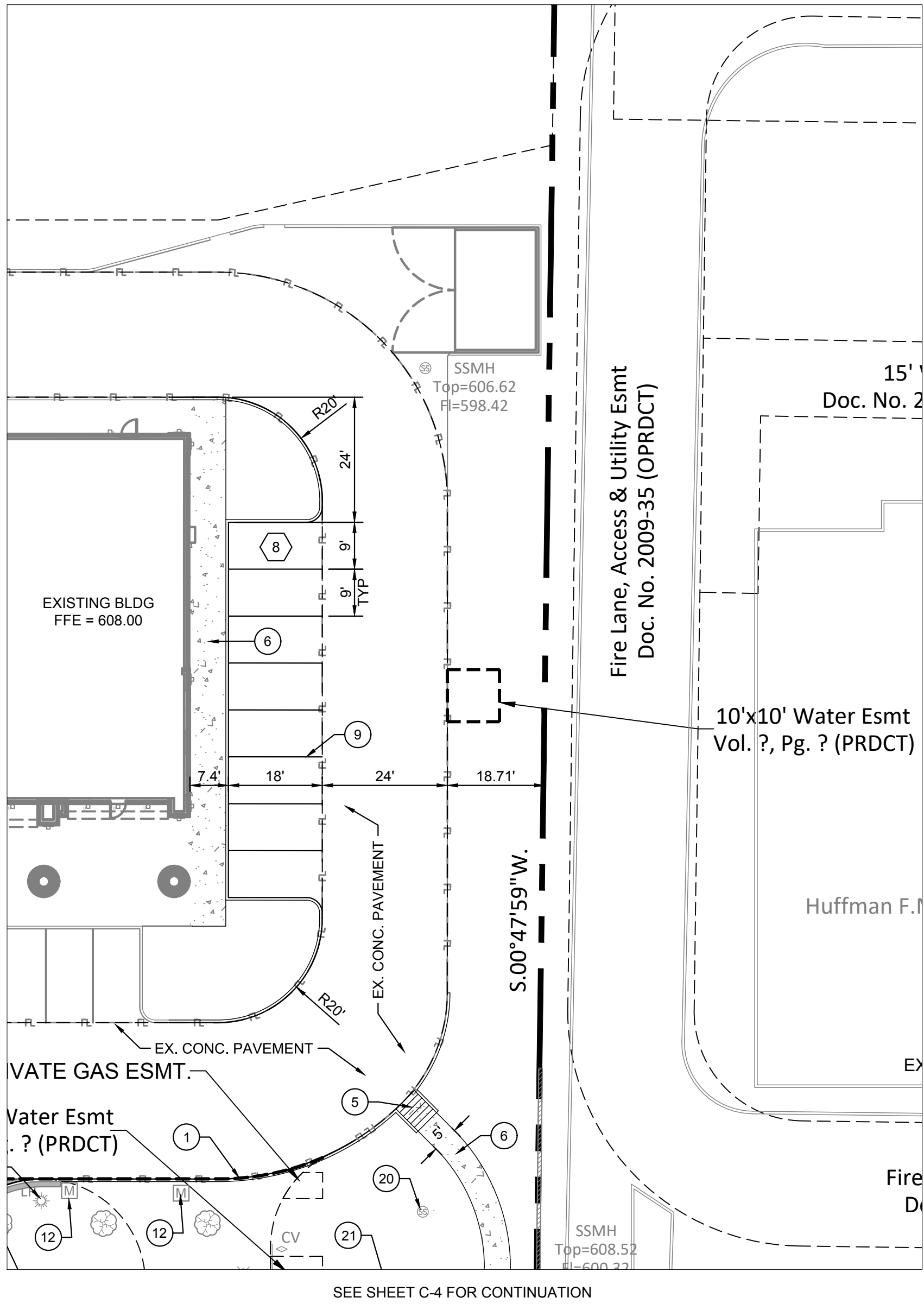
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**DIMENSIONAL CONTROL**  
**AND PAVING PLAN**

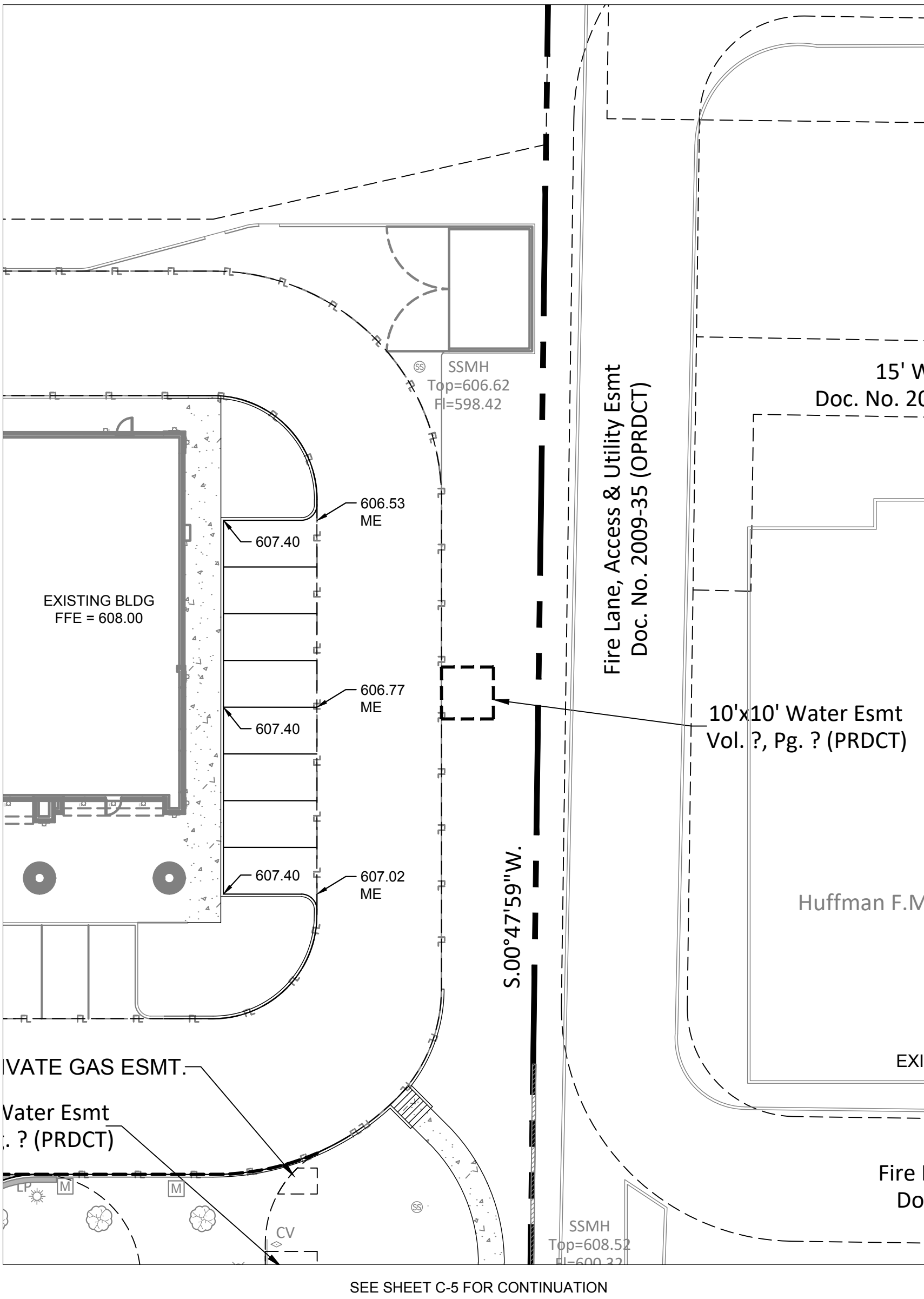
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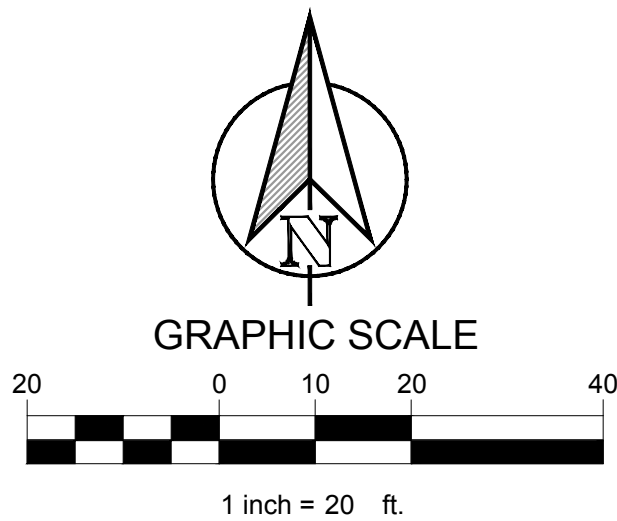
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DIMENSIONAL CONTROL AND PAVING PLAN



GRADING PLAN

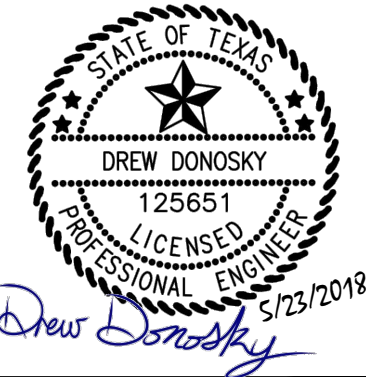


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TEEL CROSSING PHASE 2  
MAIN STREET  
FRISCO, TX

No.	DATE	REVISION	BY

DIMENSIONAL CONTROL  
AND PAVING PLAN,  
GRADING PLAN

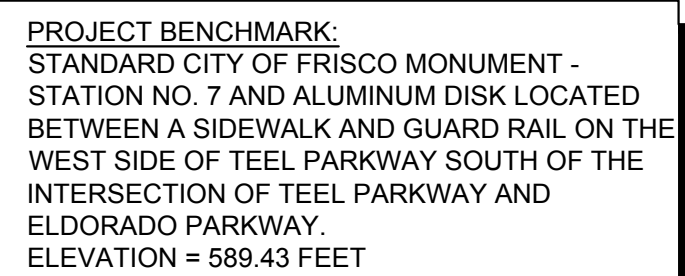
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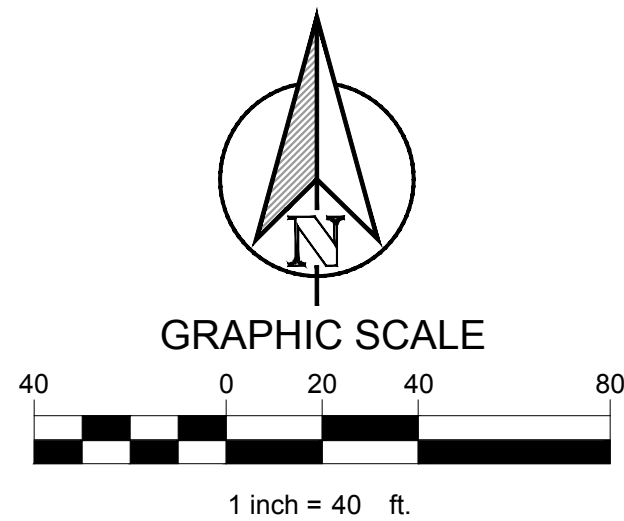
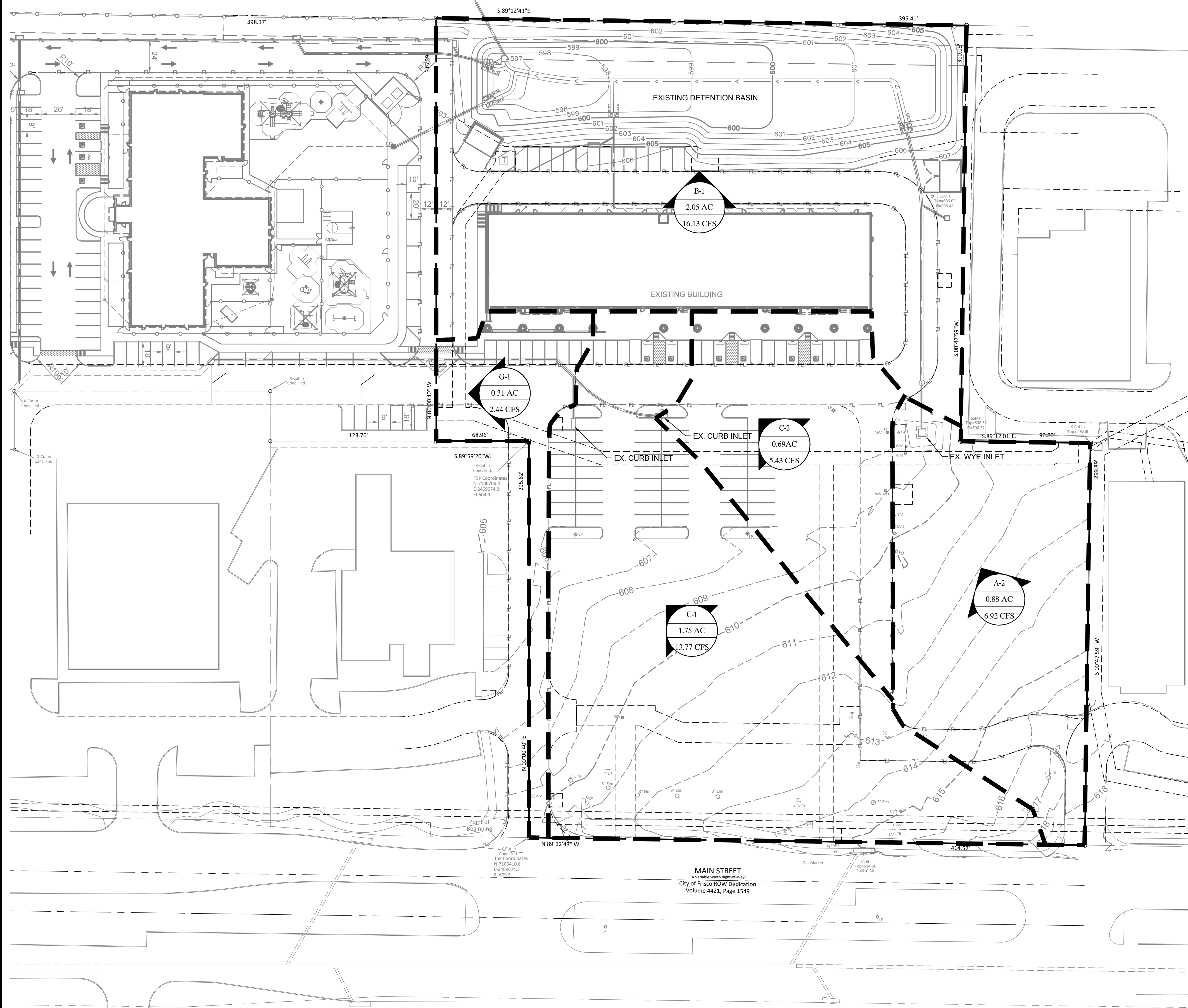
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LEGEND	
	— DRAINAGE AREA
	— DRAINAGE AREA IN ACRES
	— FLOW FOR DRAINAGE AREA IN CFS
	DIRECTION OF FLOW
	DRAINAGE AREA BOUNDARY

PRE DEVELOPMENT RUNOFF CALCULATIONS								
DRAINAGE AREA	AREA (AC.)	C	Tc	I <sub>s</sub> (IN/HR)	Q <sub>s</sub> (CFS)	I <sub>100</sub> (IN/HR)	Q <sub>100</sub> (CFS)	REMARKS
A-2 *	0.88	0.90	10	5.81	4.60	8.74	6.92	DRAINS TO WYE INLET/BASIN
B-1 *	2.05	0.90	10	5.81	10.72	8.74	16.13	DRAINS TO DET. BASIN
C-1 **	1.75	0.90	10	5.81	9.15	8.74	13.77	DRAINS TO CURB INLET
C-2 **	0.69	0.90	10	5.81	3.61	8.74	5.43	DRAINS TO CURB INLET
G-1 **	0.31	0.90	10	5.81	1.62	8.74	2.44	SHEET FLOWS TO LOT 3R
TOTAL ONSITE DRAINAGE								
	5.68				29.70		44.69	

PROJECT BENCHMARK:  
 STANDARD CITY OF FRISCO MONUMENT -  
 STATION NO. 7 AND ALUMINUM DISK LOCATED  
 BETWEEN A SIDEWALK AND GUARD RAIL ON THE  
 WEST SIDE OF TEEL PARKWAY SOUTH OF THE  
 INTERSECTION OF TEEL PARKWAY AND  
 ELDORADO PARKWAY.  
 ELEVATION = 589.43 FEET

TEXAS REGISTRATION #14199  
**CLAY MOORE**  
 ENGINEERING  
 1903 CENTRAL DRIVE, SUITE 400  
 FORT WORTH, TX 76101  
 PHONE (817) 281-0072  
 WWW.CLAYMOOREENGINEERING.COM

STATE OF TEXAS  
 DREW DONOSKY  
 125651  
 LICENSED PROFESSIONAL ENGINEER  
 5/23/2018  
*Drew Donosky*

**TEEL CROSSING PHASE 2**  
**MAIN STREET**  
**FRISCO, TX**

No.	DATE	REVISION	BY

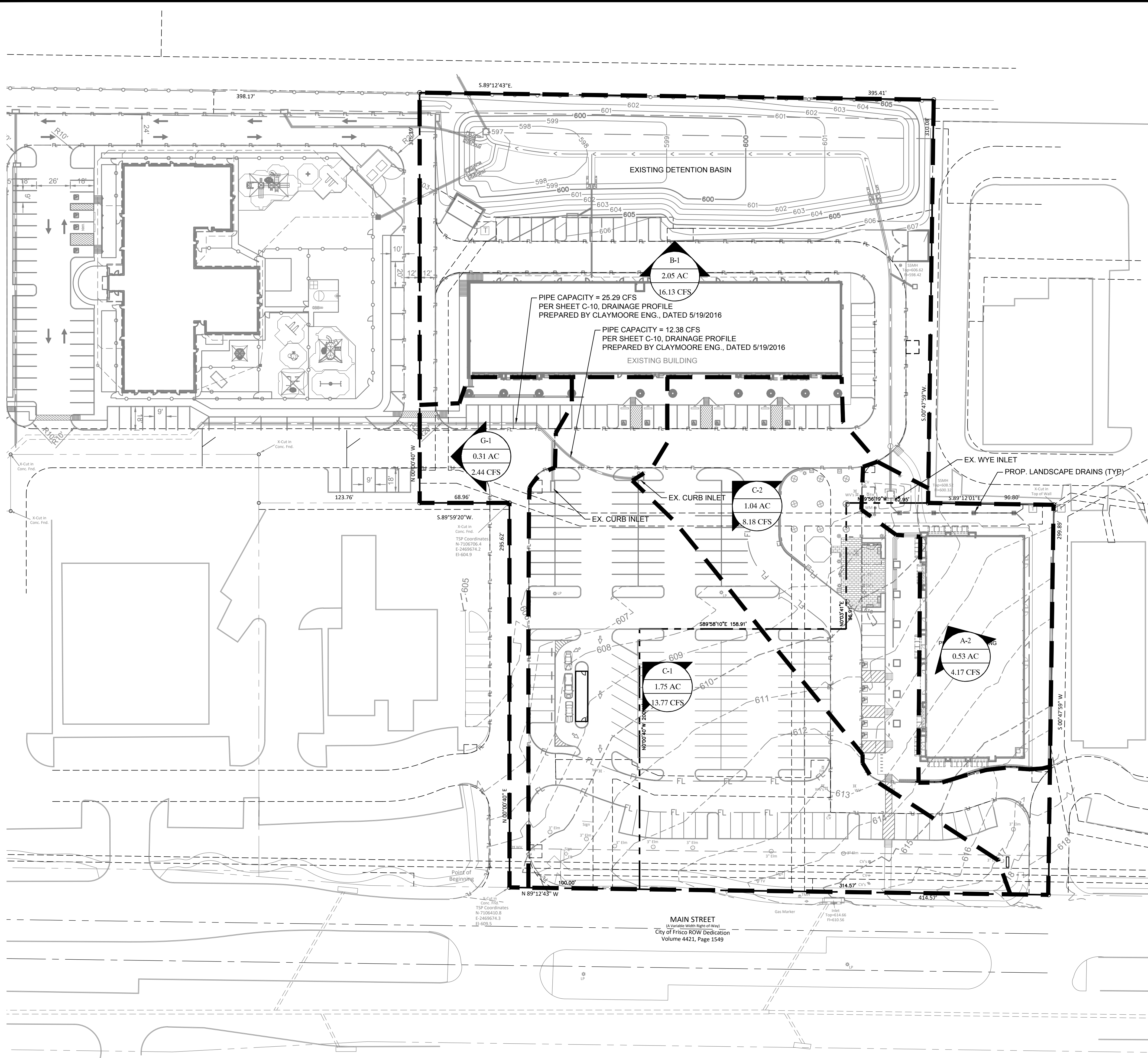
**EXISTING DRAINAGE**  
**AREA MAP**

DESIGN: MBT  
 DRAWN: MBT  
 CHECKED: DD  
 DATE: 5/23/2018  
 SHEET  
**C-6**

File No. 2017-165



PLOTTED BY: DENG TORRES  
 PLOT DATE: 5/23/2018 6:12 PM  
 LOCATION: Z:\PROJECTS\PROJECTS\2017-165 VCM FRISCO TEEL PHASE 2\CADD\SHEETS\C-7 PROPOSED DRAINAGE AREA MAP.DWG  
 LAST SAVED: 3/8/2018 3:11 PM



GRAPHIC SCALE

1 inch = 40 ft.

LEGEND

- DRAINAGE AREA
- DRAINAGE AREA IN ACRES
- FLOW FOR DRAINAGE AREA IN CFS
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY

**FLOODPLAIN NOTE:**  
 ACCORDING TO MAP NO. 48121C0440G, DATED APRIL 18, 2011 OF THE NATIONAL FLOOD INSURANCE PROGRAM MAP, FLOOD INSURANCE RATE MAP OF DENTON COUNTY, TEXAS, FEDERAL EMERGENCY MANAGEMENT AGENCY, FEDERAL INSURANCE ADMINISTRATION, THIS PROPERTY IS WITHIN ZONE "X" (SHADED) AND IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA.

**DETENTION NOTES:**  
 REGIONAL DETENTION IS PROVIDED FOR THIS PROJECT AS DEMONSTRATED IN THE CIVIL PLANS TITLED TEEL CROSSING, LOT 4 BLOCK A, TEEL CROSSING SHOPPING CENTER 1 ( SCSP15-0042), PREPARED BY CLAYMOORE ENGINEERING, DATED MAY 2016.

PRE DEVELOPMENT RUNOFF CALCULATIONS							
DRAINAGE AREA	AREA (AC.)	C	Tc	I <sub>p</sub> (IN/HR)	Q <sub>3</sub> (CFS)	I <sub>100</sub> (IN/HR)	Q <sub>100</sub> (CFS)
A-2 *	0.53	0.90	10	5.81	2.77	8.74	4.17
B-1 *	2.05	0.90	10	5.81	10.72	8.74	16.13
C-1 **	1.75	0.90	10	5.81	9.15	8.74	13.77
C-2 **	1.04	0.90	10	5.81	5.44	8.74	8.18
G-1**	0.31	0.90	10	5.81	1.62	8.74	2.44
REMARKS							
DRAINS TO WYE INLET/BASIN							
DRAINS TO DET. BASIN							
DRAINS TO CURB INLET							
DRAINS TO CURB INLET							
SHEET FLOWS TO LOT 3R							
TOTAL ONSITE DRAINAGE							
	5.68				29.70		44.69

Curb Inlet Capacity Equations			
Weir Controlled			
$L = (Q/C_p)/(C_p D^{1.5})$			
L = Length of Curb			
Q = Total Flow reaching inlet (CFS)			
C <sub>w</sub> = Weir Coefficient 2.3 (ft <sup>0.5</sup> /s)			
d = Head at inlet opening (ft.)			
Clogging Factor = 0.8			
L = 6.05 ft.			
Orifice Controlled			
$L = Q/(C_o h \sqrt{2gd_e})$			
L = Length of Curb			
Q = Total Flow reaching inlet (CFS)			
C <sub>o</sub> = Orifice Coefficient = 0.67			
h = depth of opening (ft.)			
g = gravity = 32.2 (ft/s <sup>2</sup> )			
d <sub>e</sub> = effective head at centroid of orifice (ft.)			
Clogging Factor = 0.8			
L = 5.14 ft			

PROJECT BENCHMARK:  
 STANDARD CITY OF FRISCO MONUMENT - STATION NO. 7 AND ALUMINUM DISK LOCATED BETWEEN A SIDEWALK AND GUARD RAIL ON THE WEST SIDE OF TEEL PARKWAY SOUTH OF THE INTERSECTION OF TEEL PARKWAY AND ELDORADO PARKWAY.  
 ELEVATION = 589.43 FEET

TEXAS REGISTRATION #14199

**CLAYMOORE ENGINEERING**

16500 DALLAS DRIVE, SUITE 400  
 BECKTOLD, TX 76021

PHONE: 817.281.4400  
 WWW.CLAYMOOREENG.COM

STATE OF TEXAS

DREW DONOSKY

12565

LICENSED PROFESSIONAL ENGINEER

5/23/2018

Drew Donosky

**TEEL CROSSING PHASE 2**

**MAIN STREET**

**FRISCO, TX**

NO.	DATE	REVISION	BY

**PROPOSED DRAINAGE AREA MAP**

DESIGN: MBT

DRAWN: MBT

CHECKED: DD

DATE: 5/23/2018

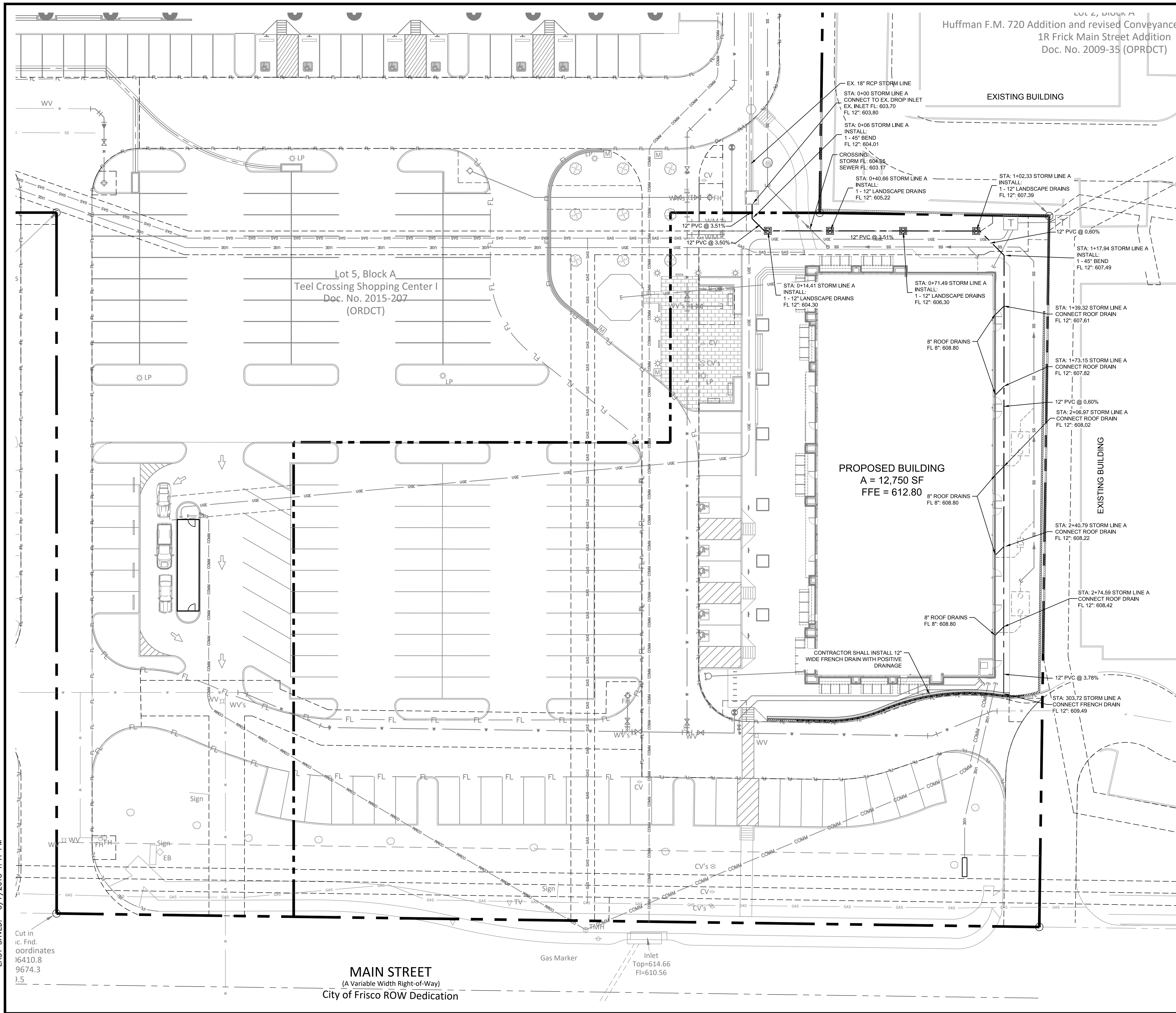
SHEET

**C-7**

File No. 2017-165

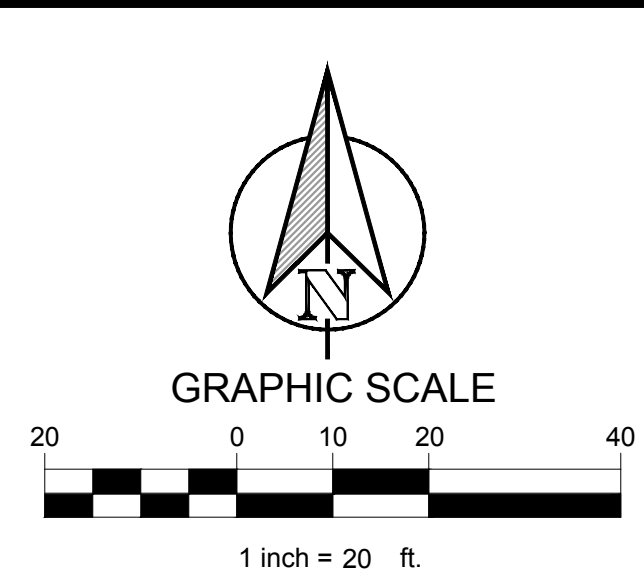


PLOTTED BY: DENG TORRES  
PLOT DATE: 5/23/2018 6:13 PM  
LOCATION: Z:\PROJECTS\PROJECTS\2017-165 VCM FRISCO TEEL PHASE 2\CADD\SHEETS\C-8 DRAINAGE PLAN.DWG  
LAST SAVED: 5/7/2018 1:41 PM



LEGEND

- PROPOSED STORM DRAIN
- PROPOSED CURB INLET
- PROPOSED GRATE INLET
- SEWER LINE
- WATER LINE



TEXAS REGISTRATION #14199

**CLAY MOORE**  
ENGINEERING

STATE OF TEXAS  
DREW DONOSKY  
125651  
LICENSED PROFESSIONAL ENGINEER  
5/23/2019  
*Drew Donosky*

**TEEL CROSSING PHASE 2**  
MAIN STREET  
FRISCO, TX

No.	DATE	REVISION	BY

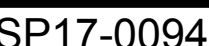
**DRAINAGE PLAN**

DESIGN: MBT  
DRAWN: MBT  
CHECKED: DD  
DATE: 5/23/2018

SHEET  
**C-8**

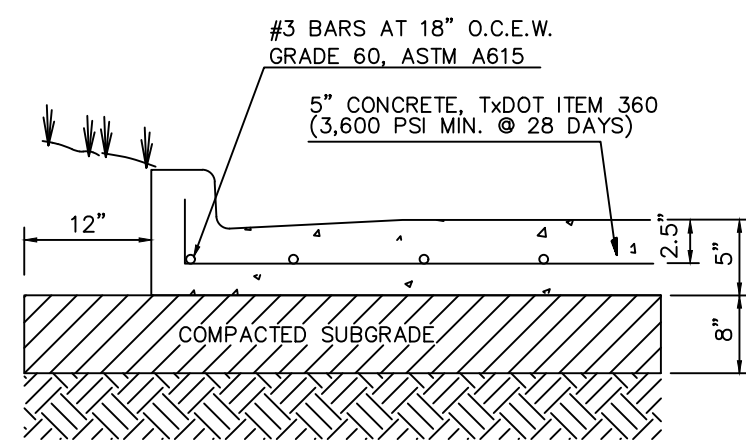
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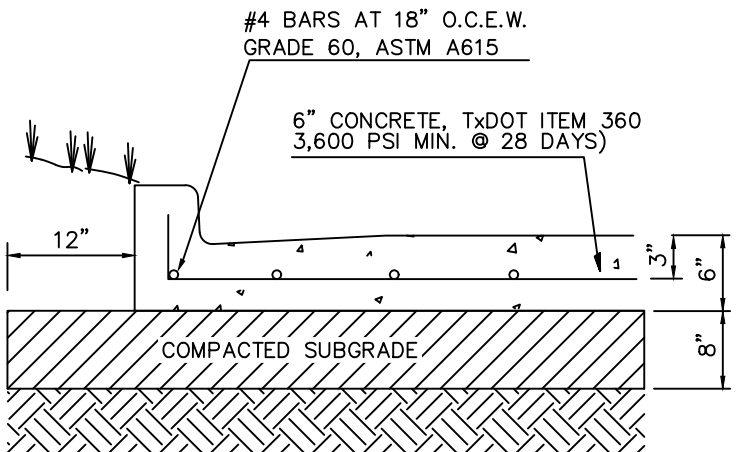




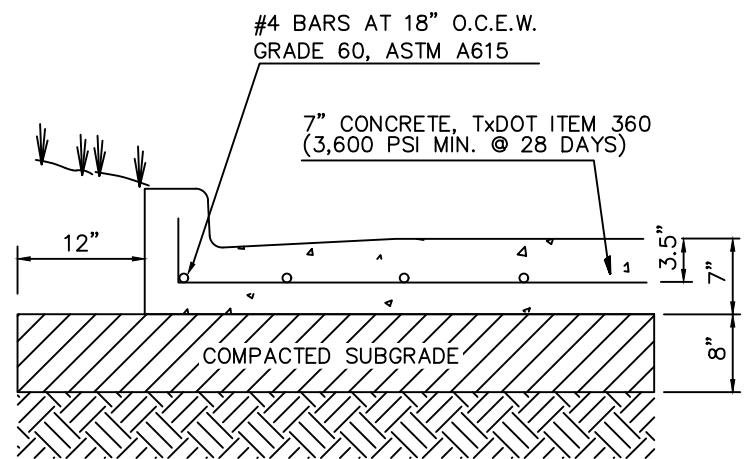
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 LAST SAVED: 2/28/2018 5:17 PM



STANDARD DUTY  
CONCRETE PAVING



HEAVY DUTY  
CONCRETE PAVING



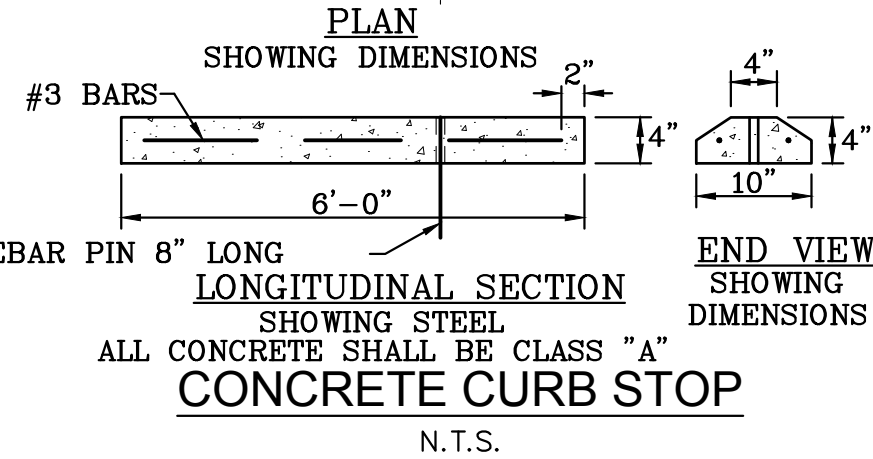
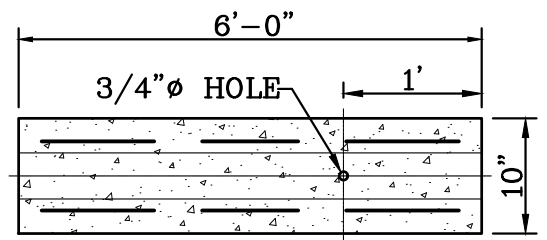
DUMPSTER AREA  
CONCRETE PAVING

GENERAL PAVING NOTES

- FOR PREPARATION OF PAVEMENT SUBGRADE, COHESIVE (CLAY) SUBGRADE SOILS SHOULD BE COMPACTED BETWEEN 95% AND 100% OF MAXIMUM DRY DENSITY SUBGRADE DEFINED BY THE STANDARD PROCTOR (ASTM D 698) WITH A MOISTURE CONTENT RANGING FROM 0 TO PLUS 3 PERCENT ABOVE OPTIMUM DRY DENSITY.
- CONCRETE SHALL HAVE A MINIMUM 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. JOINTS IN CONCRETE PAVING SHALL BE FORMED AT A MAXIMUM OF 15 FEET. CONCRETE SHALL INCLUDE AIR ENTRAINMENT PER GEOTECH REPORT. ALL OTHER JOINT SPACING SHALL BE INSTALLED PER PROJECT SPECIFICATIONS.
- JOINTS IN CONCRETE PAVEMENT SHALL NOT EXCEED 15 FOOT SPACING.
- REFER TO GEOTECHNICAL REPORT FOR ALL SUBGRADE RECOMMENDATIONS

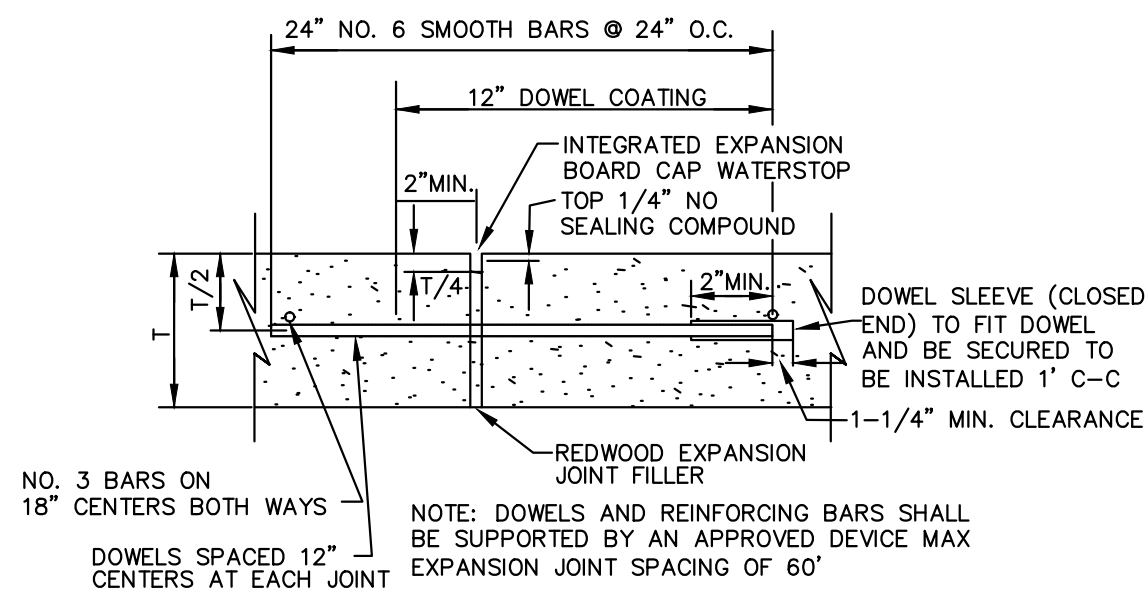
PAVING DETAILS

SCALE: NONE



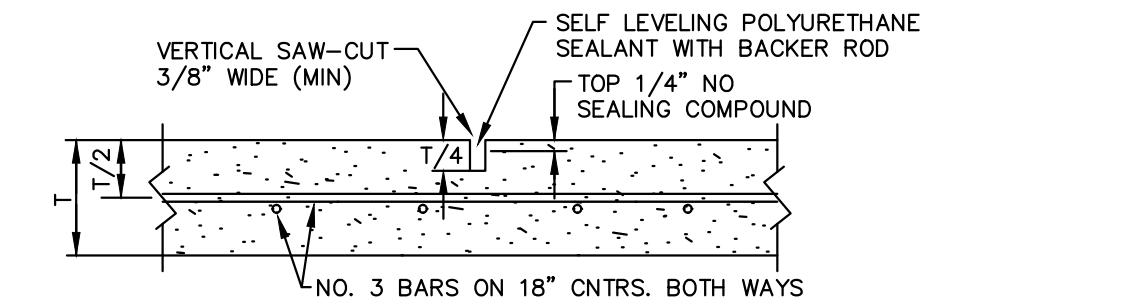
CONCRETE CURB STOP

N.T.S.



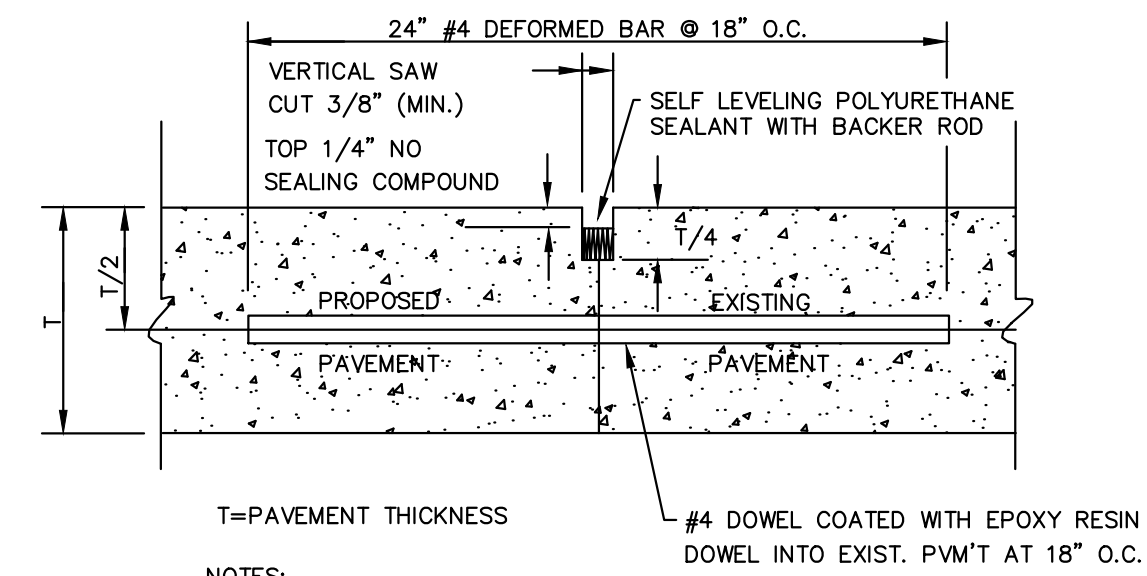
TRANSVERSE EXPANSION/  
ISOLATION JOINT DETAIL

SCALE: NONE



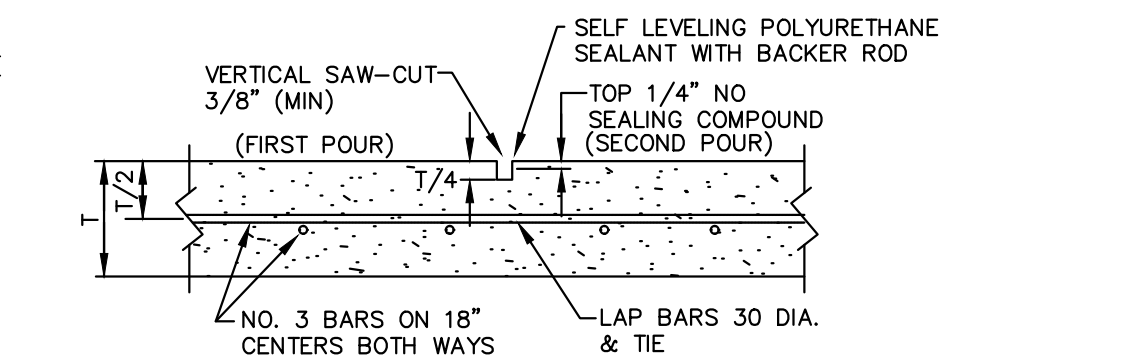
CONTRACTION JOINT DETAIL

SCALE: NONE



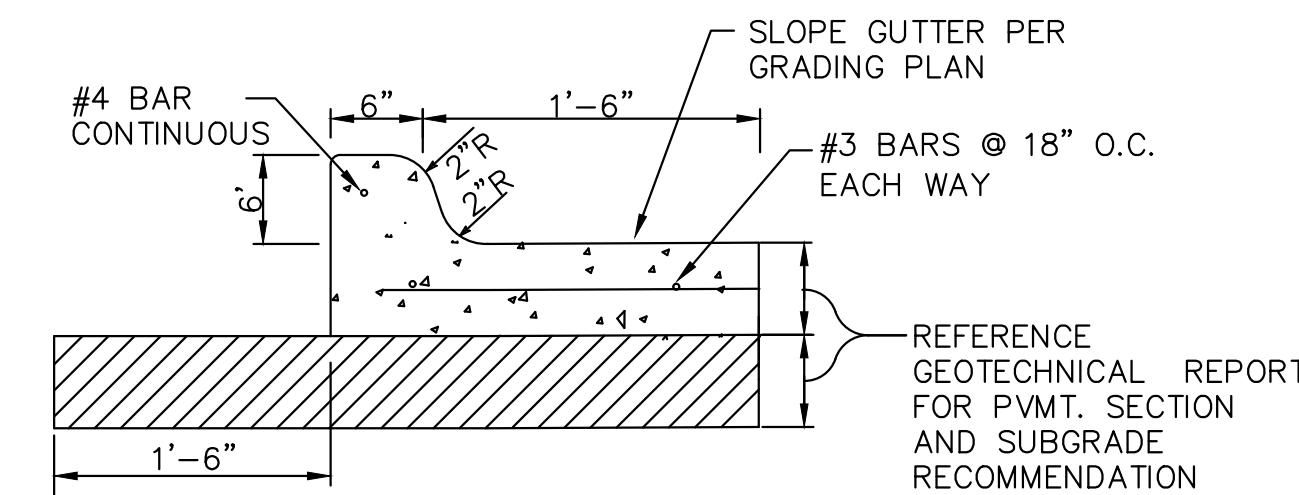
LONGITUDINAL BUTT JOINT DETAIL

SCALE: NONE



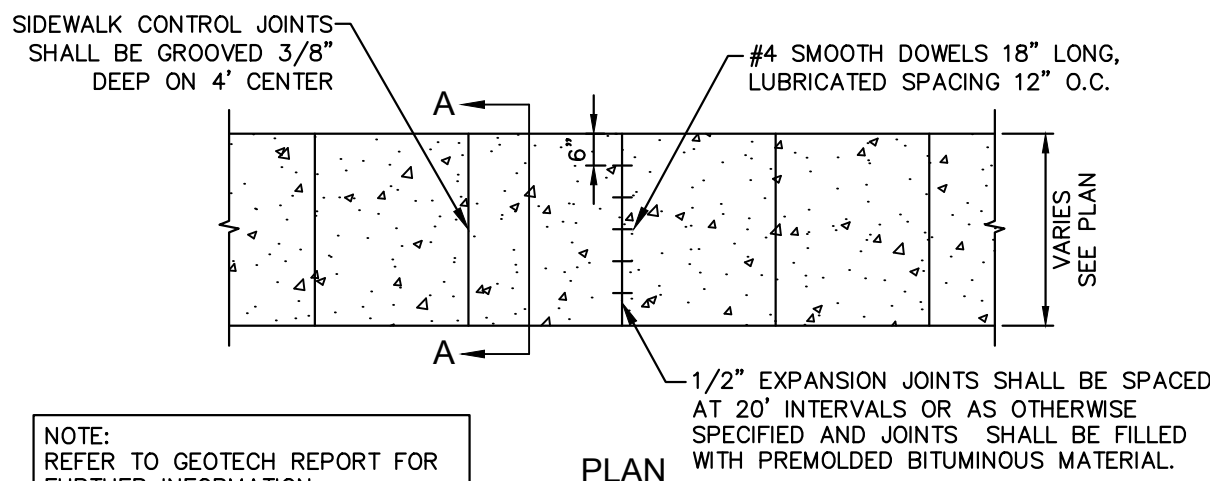
CONSTRUCTION JOINT DETAIL

SCALE: NONE

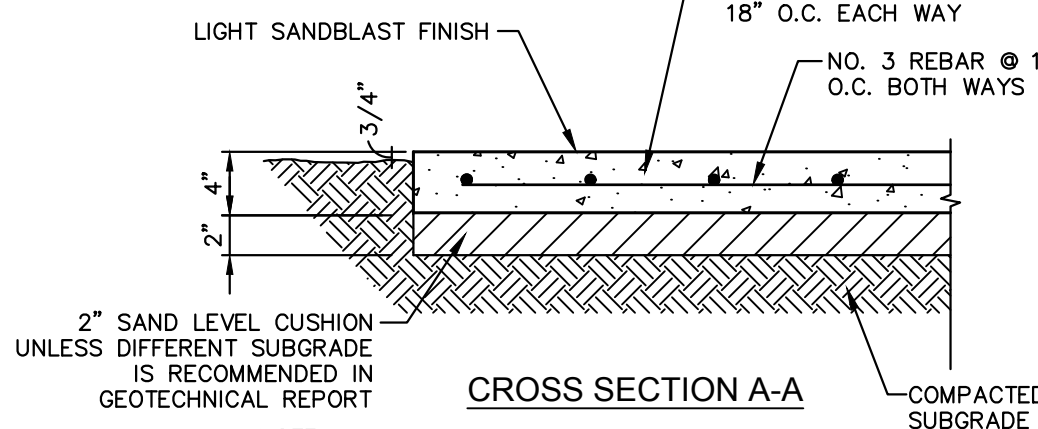


CONCRETE CURB AND GUTTER DETAIL  
(PRIVATE)

SCALE: NONE



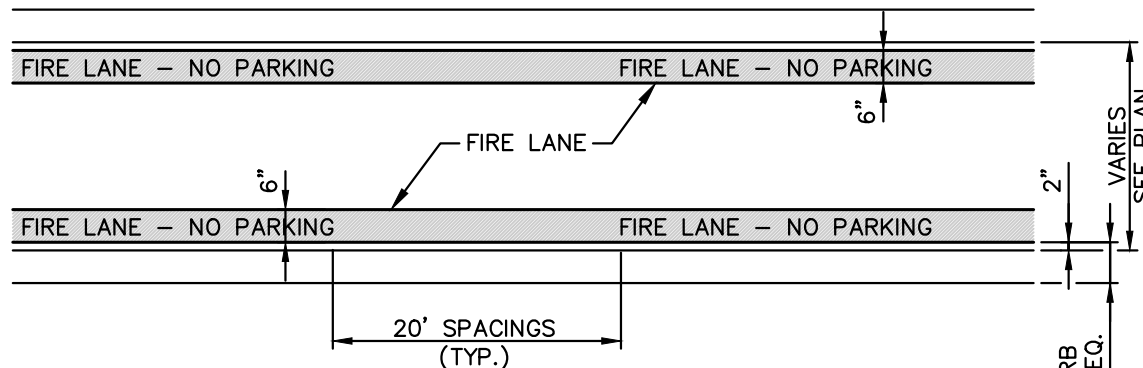
PLAN



CROSS SECTION A-A

PRIVATE CONCRETE SIDEWALK DETAIL

N.T.S.



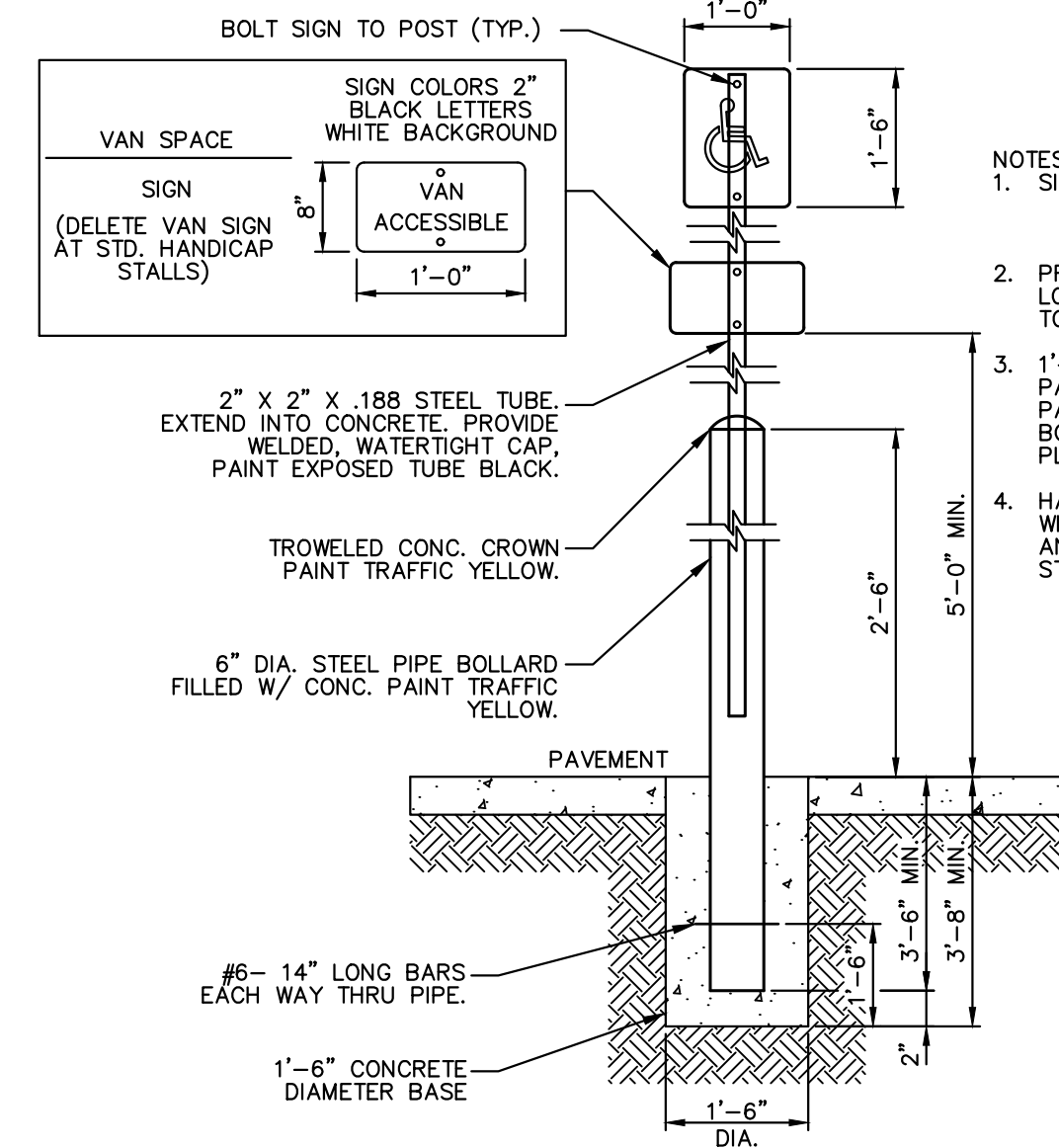
FIRE LANE STRIPING DETAIL

N.T.S.

GENERAL NOTE:  
1. STRIPING TO BE DONE IN ACCORDANCE WITH CITY STANDARDS.

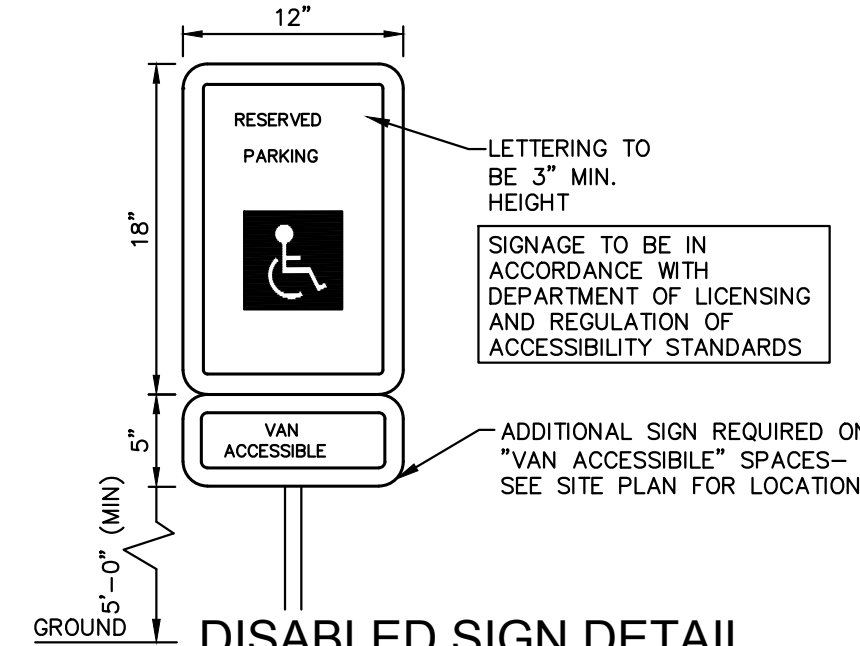
STRIPING DETAIL NOTES:

- PAINT:
  - 1.1. STRIPE SHALL BE SIX (6) INCHES WIDE PAINTED WITH AN EXTERIOR ACRYLIC LATEX PAINT.
    - A. COLOR SHALL BE "TRAFFIC RED" GLIDDEN NO. 63251 OR EQUAL.
  - 1.2. LETTERS SHALL BE FOUR (4) INCHES HIGH PAINTED WITH AN EXTERIOR ACRYLIC LATEX PAINT.
    - B. COLOR SHALL BE "TRAFFIC WHITE" GLIDDEN NO. 563245 OR EQUAL.
- APPLICATION:
  - 2.1. STRIPE MAY BE BRUSHED OR SPRAYED, ONE COAT TO FINISH.
  - 2.2. LETTERS SHALL BE STENCIL FORMED, BRUSH APPLIED AND SPACED AS DETAILED ON THIS SHEET.



"HANDICAPPED PARKING" SIGN POST DETAIL

N.T.S.

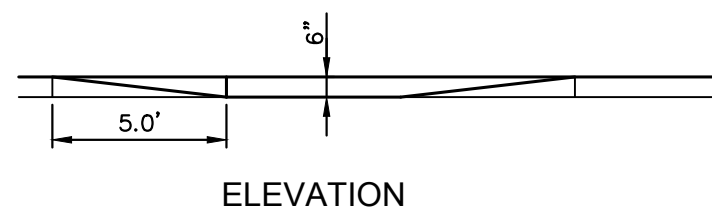


DISABLED SIGN DETAIL

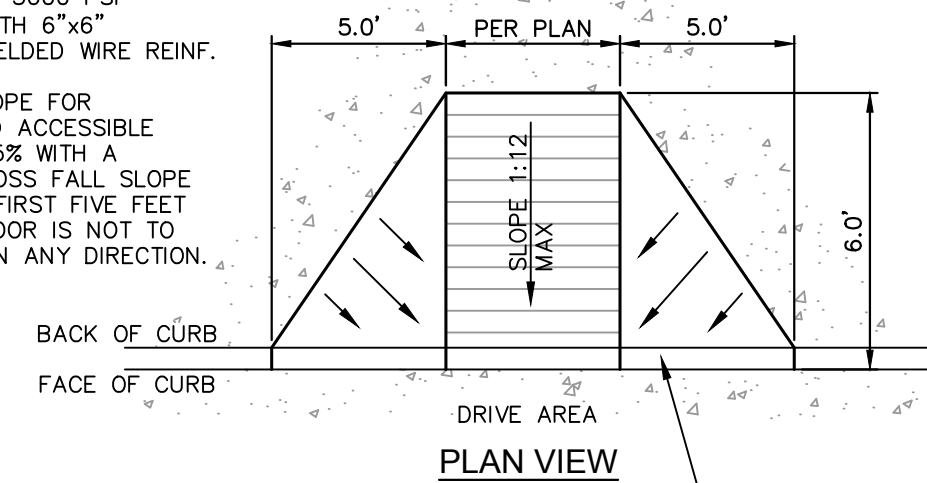
N.T.S.

NOTES:

- RAMP SCORE JOINTS 2" O.C. (MIN., 1/8" DEEP GROOVE, 1/4" WIDE.) RAMP SURFACE COLORED AS NECESSARY TO SIGNIFICANTLY CONTRAST WITH THE COLOR OF THE ADJOINING SIDEWALK/ACCESSIBLE ROUTES.
- TAPERED CURB AND GUTTER SECTION. MAINTAIN GUTTER FLOWLINE AS REQUIRED.
- RAMP SHALL BE CONSTRUCTED OF 4" THICK, 3000 PSI CONCRETE WITH 6"x6" W2.9xW2.9 WELDED WIRE REINF.
- MAXIMUM SLOPE FOR HANDICAPPED ACCESSIBLE PATHS ARE 5% WITH A MAXIMUM CROSS FALL SLOPE OF 2%. THE FIRST FIVE FEET FROM THE DOOR IS NOT TO EXCEED 2% IN ANY DIRECTION.



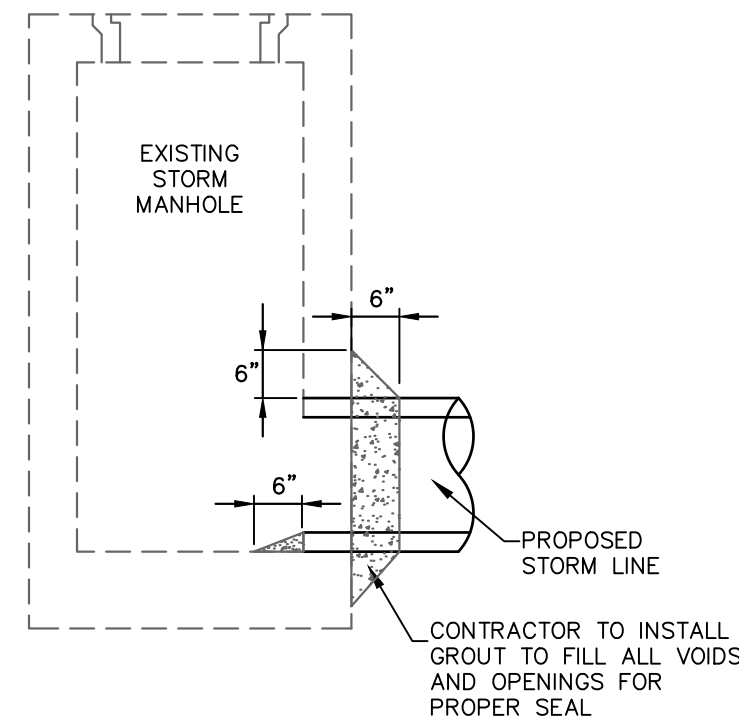
ELEVATION



PLAN VIEW

PRIVATE HANDICAPPED RAMPS

N.T.S.



STORM SEWER MANHOLE  
CONNECTION DETAIL

N.T.S.

PROJECT BENCHMARK:  
STANDARD CITY OF FRISCO MONUMENT -  
STATION NO. 7 AND ALUMINUM DISK LOCATED  
BETWEEN A SIDEWALK AND GUARD RAIL ON THE  
WEST SIDE OF TEEL PARKWAY SOUTH OF THE  
INTERSECTION OF TEEL PARKWAY AND  
ELDORADO PARKWAY.  
ELEVATION = 589.43 FEET

TEEL CROSSING PHASE 2  
 MAIN STREET  
 FRISCO, TX

NO.	DATE	REVISION	BY

CONSTRUCTION DETAILS

DESIGN:	MBT
DRAWN:	MBT
CHECKED:	DD
DATE:	5/23/2018

SHEET

C-10



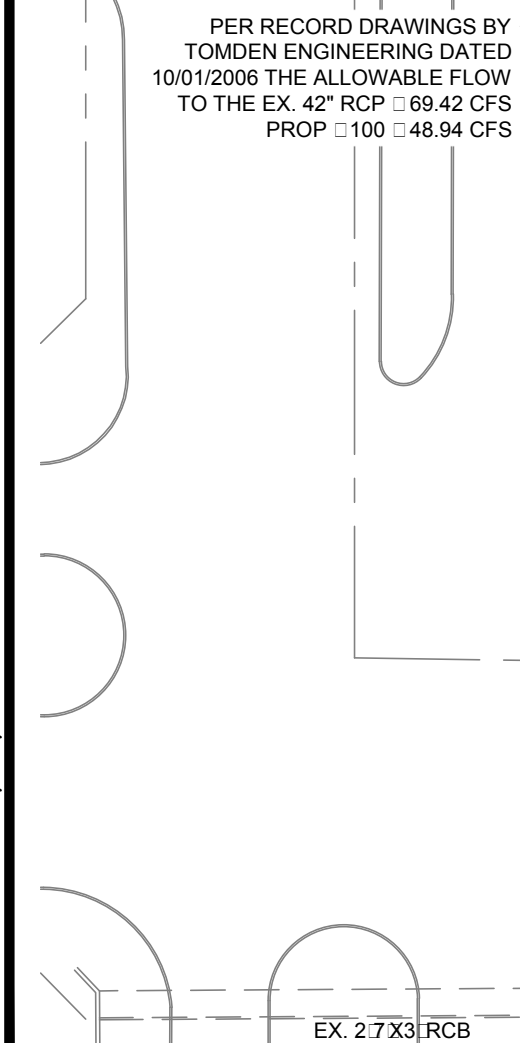








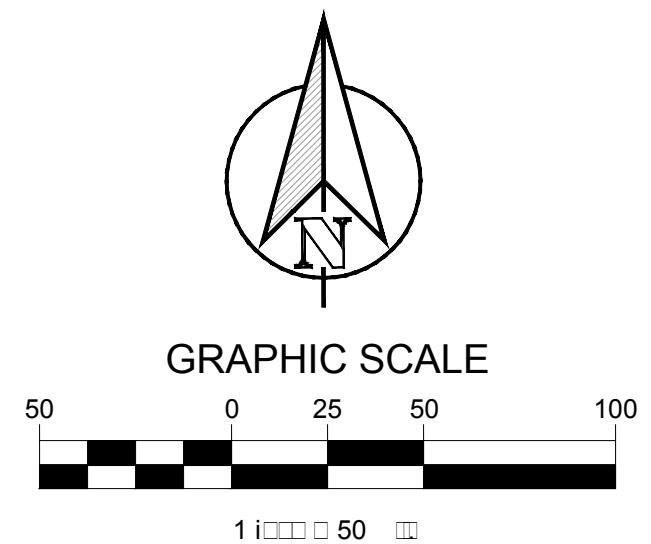
PLOTTED BY: BOBBY KUBIN

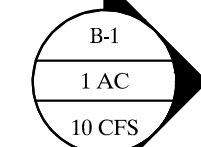






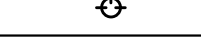

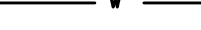
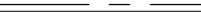


ACCORDING TO MAP NO. 48121C0440G, DATED APRIL 18, 2011 OF THE NATIONAL FLOOD INSURANCE PROGRAM MAP, FLOOD INSURANCE RATE MAP OF DENTON COUNTY, TEXAS, FEDERAL EMERGENCY MANAGEMENT AGENCY, FEDERAL INSURANCE ADMINISTRATION, THIS PROPERTY IS WITHIN ONE "X" SHADED AND IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA.

PER RECORD DRAWINGS BY RLK  
ENGINEERING DATED 3/10/2010 THE  
ALLOWABLE FLOW TO THE EX.  
STORM SYSTEM ☐ 24.1 CFS  
PROP ☐ 100 ☐ 24.1 CFS  
POND OUTFALL, C<sub>1</sub>, D<sub>1</sub>, AND G<sub>1</sub> ☐

REFER TO PRIMROSE SCHOOL OF FRISCO  
WEST BY CLAYMOORE ENGINEERING FOR  
DETENTION POND AND OUT FALL DETAILS



LEGEND	
	<p>□ DRAINAGE AREA</p> <p>□ DRAINAGE AREA IN ACRES</p> <p>□ FLOW FOR DRAINAGE AREA IN CFS</p>
	DIRECTION OF FLOW
	DRAINAGE AREA BOUNDARY
	EX. STORM LINE
	EX. SEWER LINE
	EX. WATER LINE
	EX. FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED STORM DRAIN

<b>DRAINAGE AREA</b>	<b>AREA (AC.)</b>	<b>C</b>	<b>Tc</b>	<b>I<sub>5</sub></b>	<b>Q<sub>5</sub> (CFS)</b>	<b>I<sub>100</sub></b>	<b>Q<sub>100</sub></b>	<b>REMARKS</b>
				<b>(IN/HR)</b>		<b>(IN/HR)</b>	<b>(CFS)</b>	
A-1 *	0.21	0.90	10	5.81	1.10	8.74	1.65	DRAINS TO GRATE INLET
A-2 *	0.88	0.90	10	5.81	4.60	8.74	6.92	DRAINS TO WYE INLET
B-1 *	0.14	0.90	10	5.81	0.73	8.74	1.10	DRAINS TO CURB INLET
B-2 *	0.16	0.90	10	5.81	0.84	8.74	1.26	ROOF DRAINS
B-3 *	0.32	0.90	10	5.81	1.67	8.74	2.52	ROOF DRAINS
C-1 **	1.75	0.90	10	5.81	9.15	8.74	13.77	DRAINS TO CURB INLET
C-2 **	0.69	0.90	10	5.81	3.61	8.74	5.43	DRAINS TO CURB INLET
D-1 *	0.89	0.90	10	5.81	4.65	8.74	7.00	DETENTION POND
D-2 *	0.06	0.90	10	5.81	0.31	8.74	0.47	DRAINS TO DETENTION POND
D-3 *	0.10	0.90	10	5.81	0.52	8.74	0.79	DRAINS TO DETENTION POND
E-1 *	0.78	0.90	10	5.81	4.08	8.74	6.14	DRAINS TO DETENTION POND
F-1 *	0.17	0.90	10	5.81	0.89	8.74	1.34	DRAINS TO CURB INLET
F-2 *	0.29	0.90	10	5.81	1.52	8.74	2.28	DRAINS TO CURB INLET
G-1**	0.31	0.90	10	5.81	1.62	8.74	2.44	SHEET FLOWS TO LOT 3R

TOTAL ONSITE DRAINAGE	6.75	35.30	53.11
-----------------------	------	-------	-------

OS-1**	0.09	0.90	10	5.81	0.47	8.74	0.71	DRAINS TO EX WYE INLET
OS-2**	0.23	0.90	10	5.81	1.20	8.74	1.81	DRAINS TO WYE INLET
OS-3**	0.29	0.90	10	5.81	1.52	8.74	2.28	SHEET FLOWS TO TEEL PKWY.
OS-4**	3.79	0.90	10	5.81	19.82	8.74	29.82	DRAINS TO EX 42" RCP

<b>TOTAL OFFSITE DRAINAGE</b>	<b>4.40</b>	<b>23.01</b>	<b>34.62</b>
<b>TOTAL DRAINAGE</b>	<b>11.15</b>	<b>58.30</b>	<b>87.74</b>

\* DENOTES AREAS DRAINING TO DETENTION POND  
\*\* DENOTES UNDETAINED AREAS DRAINING TO MAIN STREET VIA EX. 42" RCP

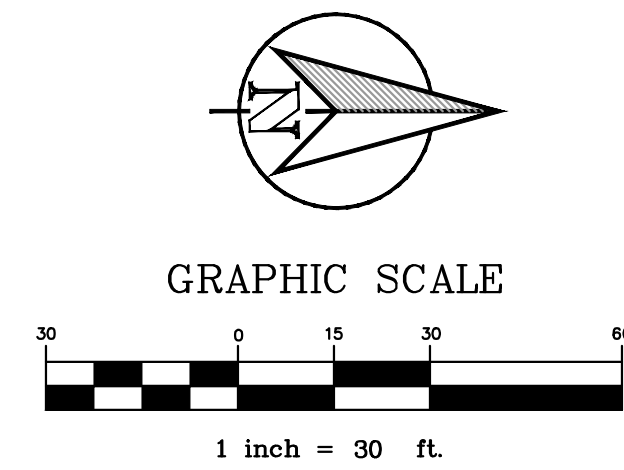
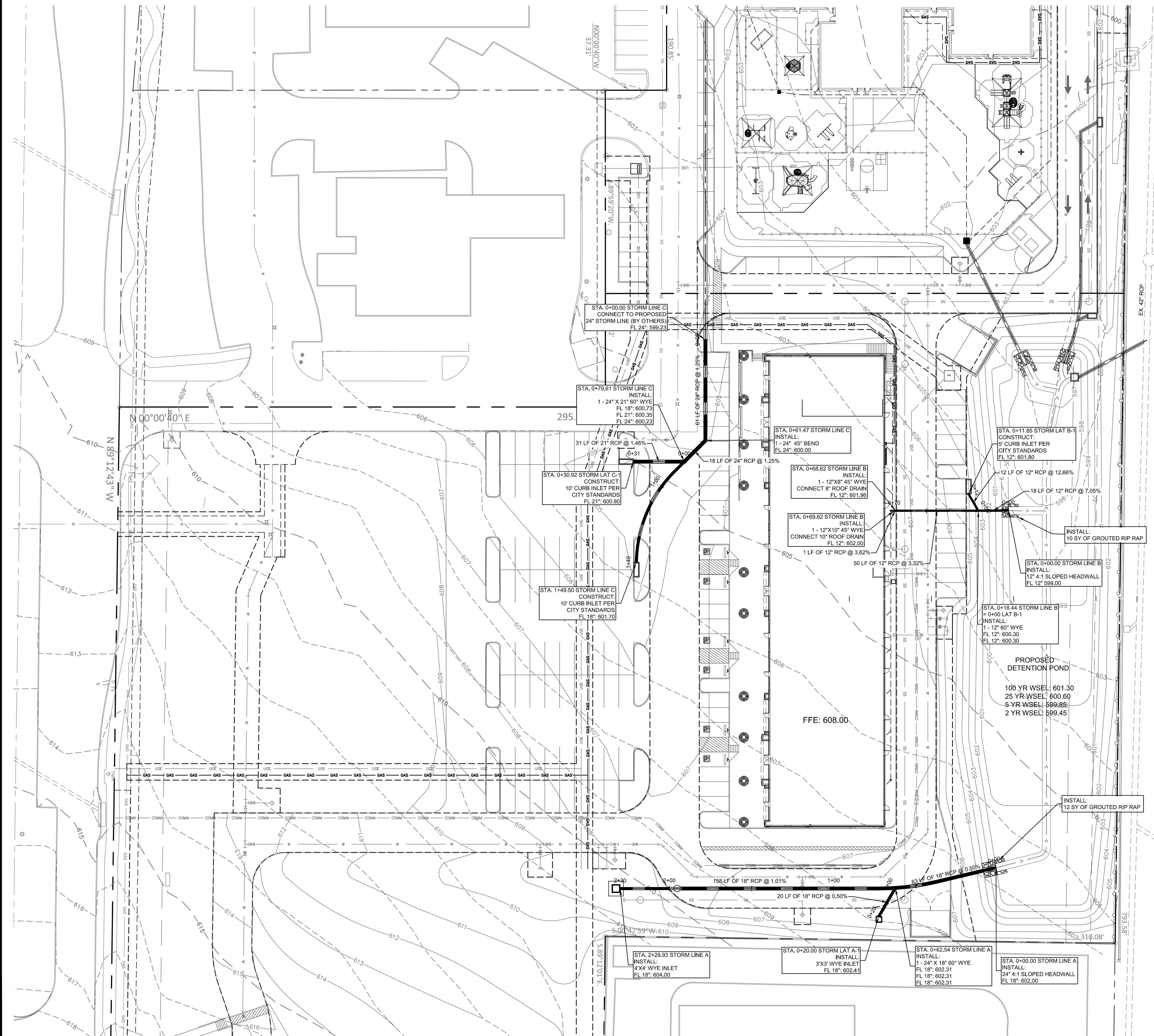
This drawing has been revised to show those changes during the construction process reported by the contractor to ClayMoore Engineering, Inc. and considered to be significant. This drawing is not guaranteed to be "As Built" but is based on the information made available.

By: Watt M Date: 07/27/2016

**PROJECT BENCHMARK:**  
STANDARD CITY OF FRISCO MONUMENT □  
STATION NO. 7 AND ALUMINUM DISK LOCATED  
BETWEEN A SIDEWALK AND GUARD RAIL ON THE  
WEST SIDE OF TEEL PARKWAY SOUTH OF THE  
INTERSECTION OF TEEL PARKWAY AND  
ELDORADO PARKWAY.  
ELEVATION □ 589.43 FEET




PLOTTED BY: BOBBY KUBIN  
PLOT DATE: 5/10/2010 11:11



- NOTES:**
1. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF EXISTING STORM LINES PRIOR TO CONSTRUCTION. IF A DISCREPANCY IS FOUND THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
  2. ALL DRAINAGE PIPE LOCATED UNDER A FIRE LANE SHALL BE REINFORCED CONCRETE PIPE

This drawing has been revised to show those changes during the construction process reported by the contractor to ClayMoore Engineering, Inc. and considered to be significant. This drawing is not guaranteed to be "As Built" but is based on the information made available.

By: Watt M Date: 07/27/2016

LEGEND	
== == == ==	EXISTING STORM DRAIN
==== - - - -	PROPOSED STORM DRAIN
	PROPOSED CURB INLET
— W —	PROPOSED WATER LINE
— SS —	PROPOSED SANITARY SEWER LINE

PROJECT BENCHMARK:  
STANDARD CITY OF FRISCO MONUMENT □  
STATION NO. 7 AND ALUMINUM DISK LOCATED  
BETWEEN A SIDEWALK AND GUARD RAIL ON THE  
WEST SIDE OF TEEL PARKWAY SOUTH OF THE  
INTERSECTION OF TEEL PARKWAY AND  
ELDORADO PARKWAY.  
ELEVATION □ 589.43 FEET

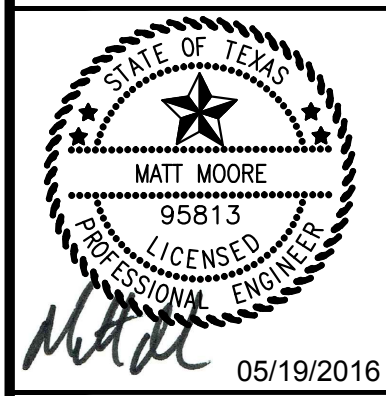
TEXAS REGISTRATION #14199

**CLAY MOORE**

**ENGINEERING**

PHONE: 817.281.0072  
WWW.CLAYMOOREENG.COM

1903 CENTRAL DRIVE, SUITE 440B  
BEDFORD, TX 76021



**TEEL CROSSING  
MAIN STREET  
FRISCO, TX**

[illegible]

DRAINAGE PLAN

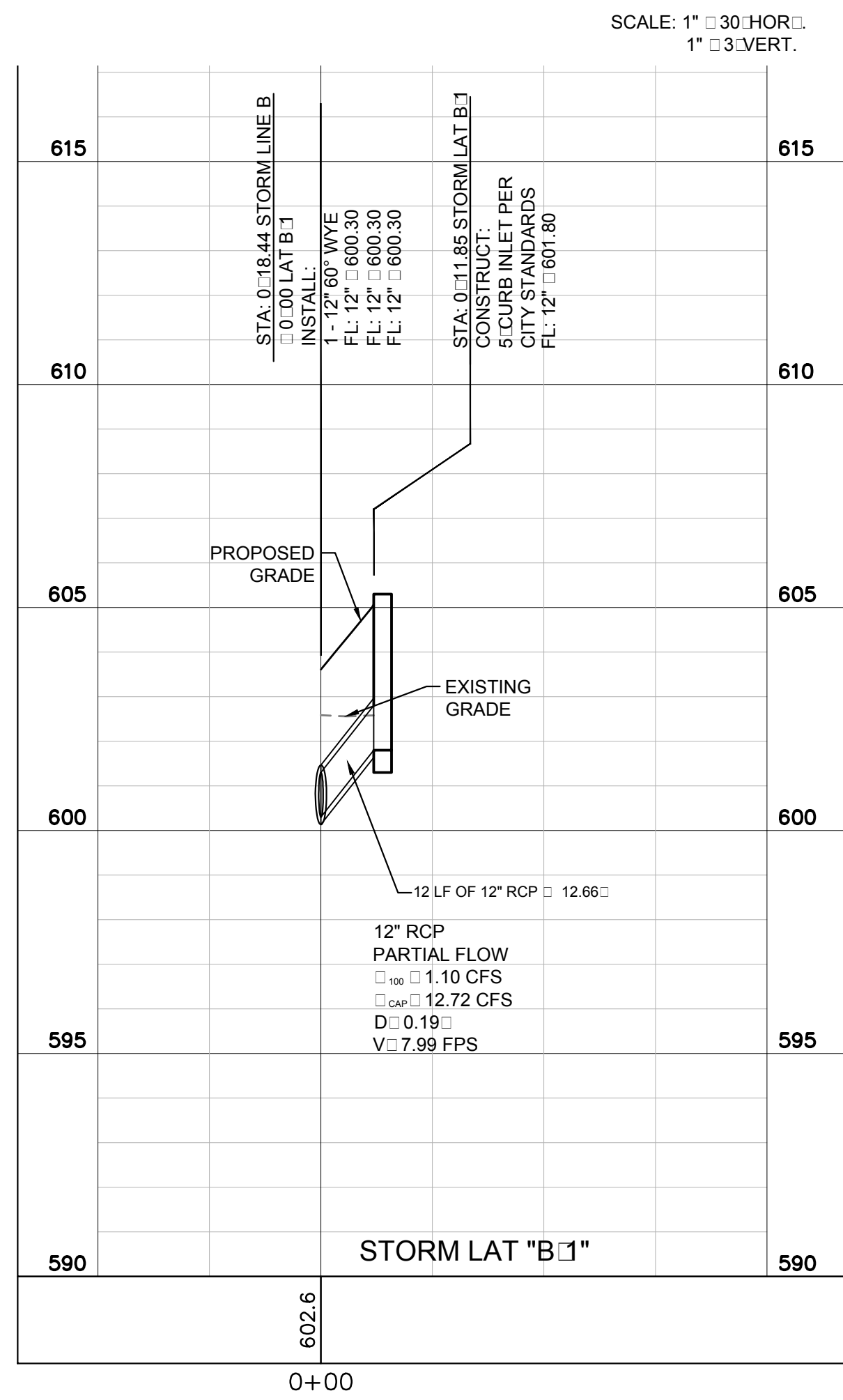
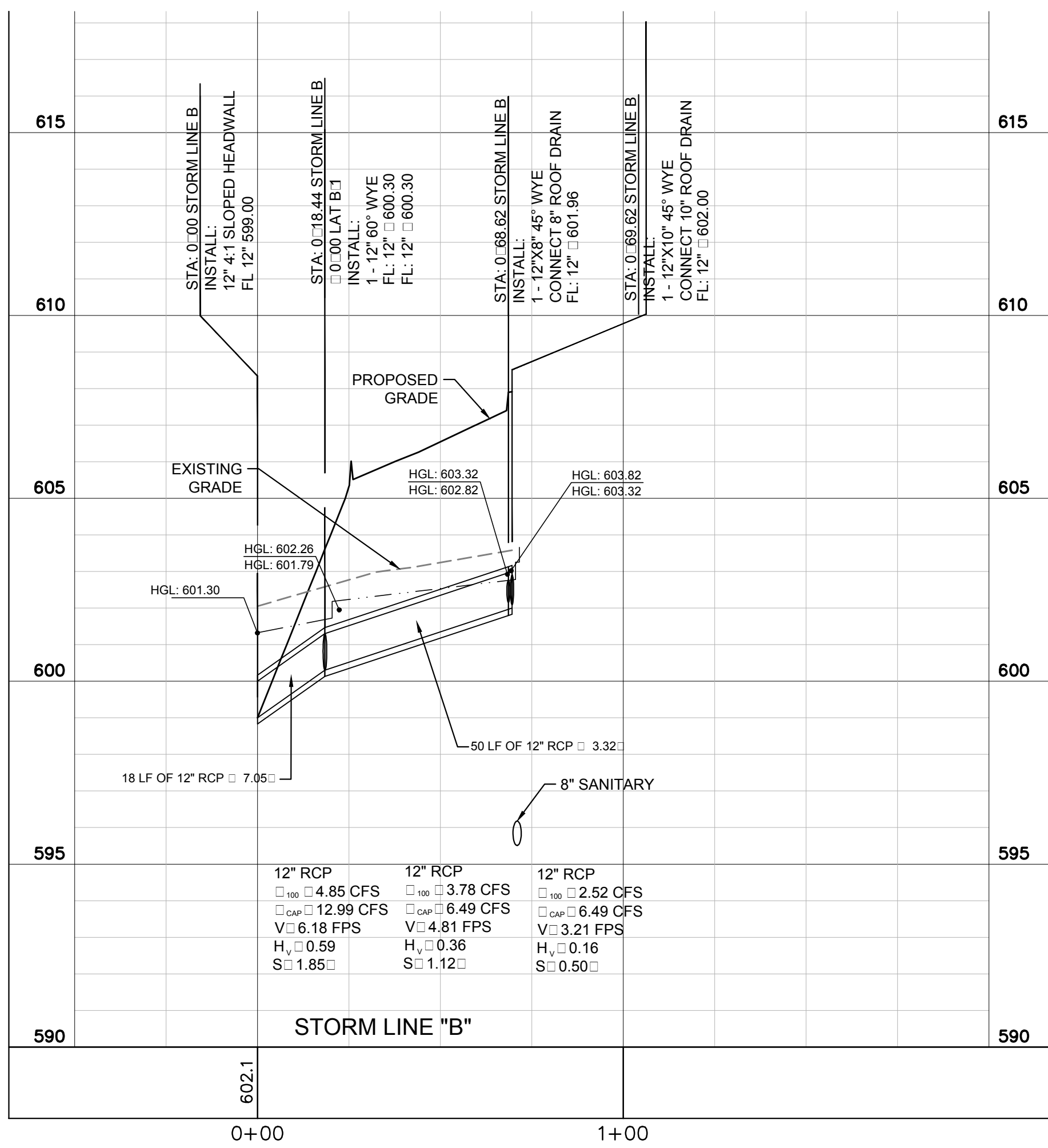
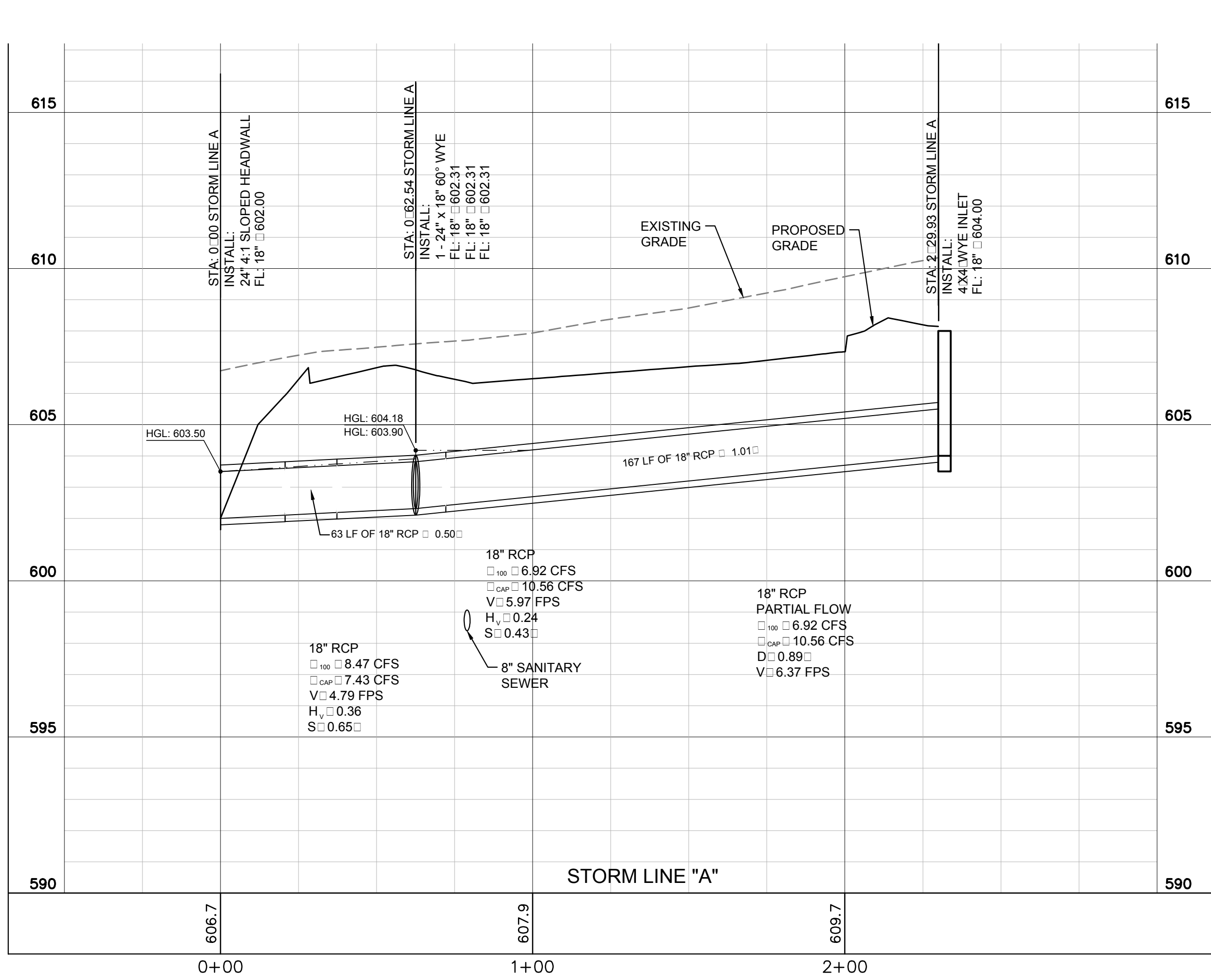
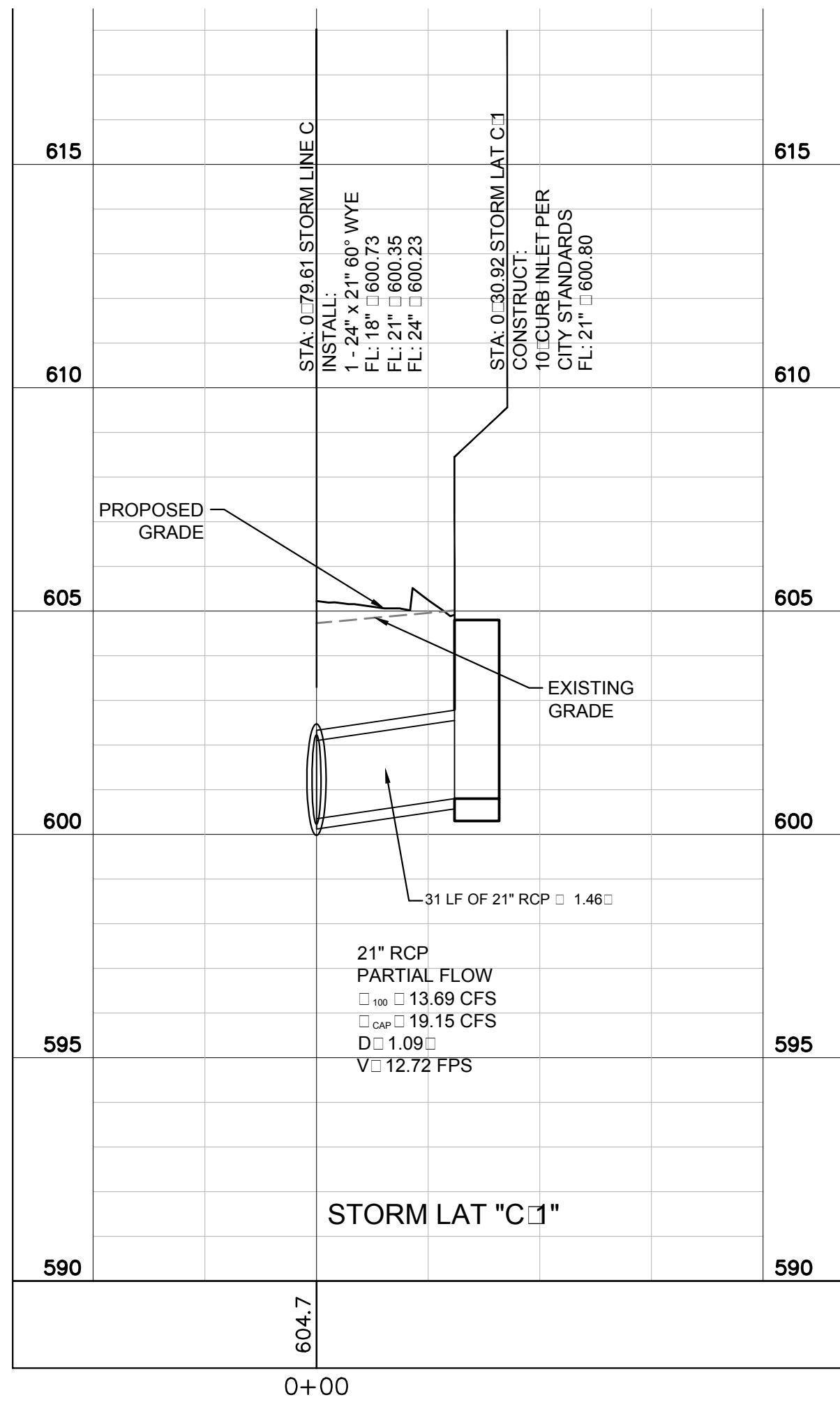
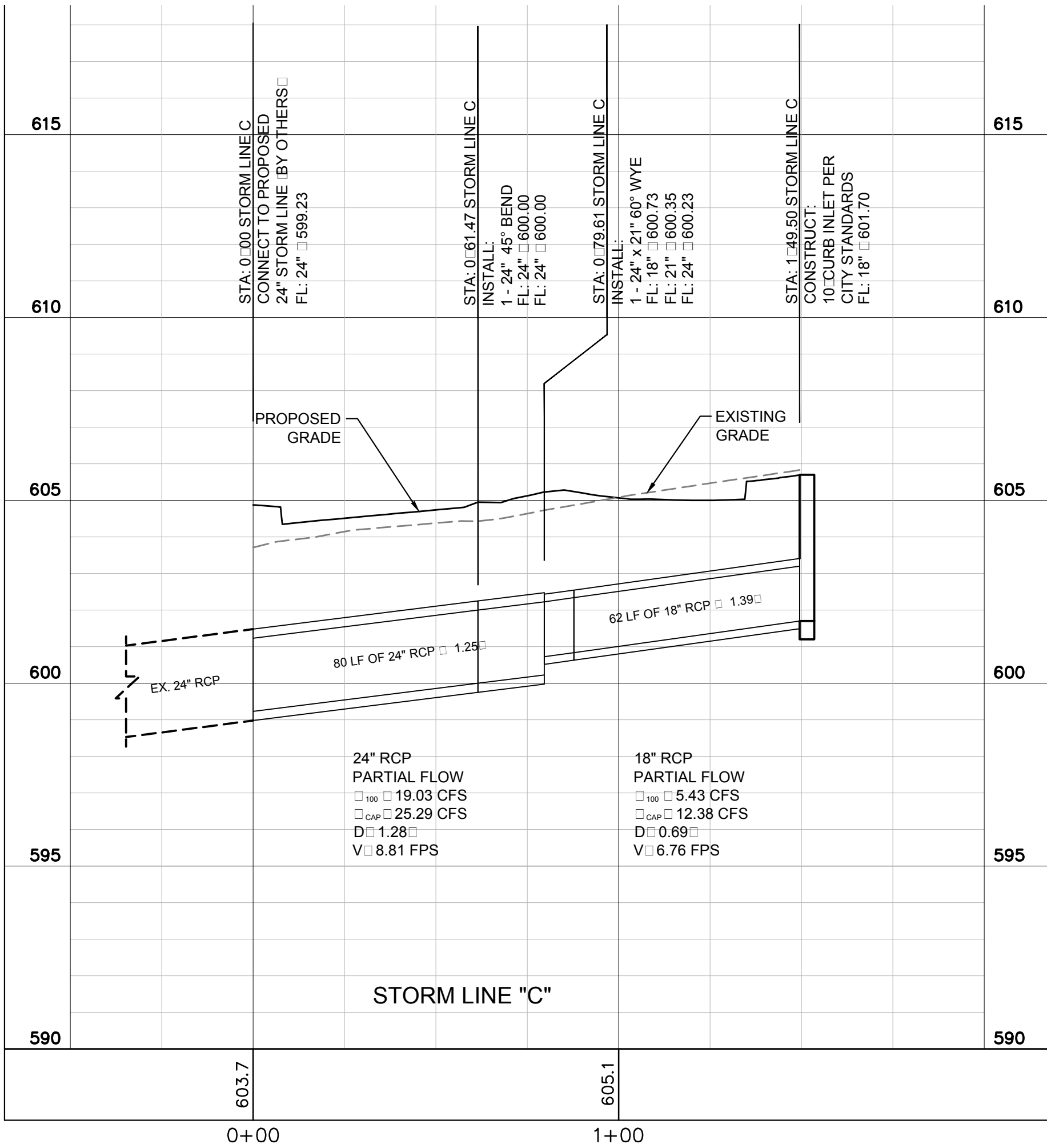
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CHECKED:	MAM
DATE:	05/19/2016

SHEET  
C-9

File No.



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PLOT DATE: 5/19/2016 11:20 AM  
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LAST SAVED: 5/19/2016 9:45 AM



This drawing has been revised to show those changes during the construction process reported by the contractor to ClayMoore Engineering, Inc. and considered to be significant. This drawing is not guaranteed to be "As Built" but is based on the information made available.

By: Matt Moore Date: 07/27/2016

PROJECT BENCHMARK:  
STANDARD CITY OF FRISCO MONUMENT  
STATION NO. 7 AND ALUMINUM DISK LOCATED  
BETWEEN A SIDEWALK AND GUARD RAIL ON THE  
WEST SIDE OF TEEL PARKWAY SOUTH OF THE  
INTERSECTION OF TEEL PARKWAY AND  
ELDORADO PARKWAY.  
ELEVATION 589.43 FEET

CLAYMOORE  
ENGINEERING

1903 CENTRAL DRIVE, SUITE 400  
Frisco, TX 75034  
PHONE 972.261.0072  
WWW.CLAYMOORE.COM

STATE OF TEXAS  
MATT MOORE  
95813  
LICENSED PROFESSIONAL ENGINEER

05/19/2016

TEEL CROSSING  
MAIN STREET  
FRISCO, TX

DRAINAGE PROFILES

DESIGN: BJK  
DRAWN: BJK  
CHECKED: MAM  
DATE: 05/19/2016

SHEET  
C-10

File No.

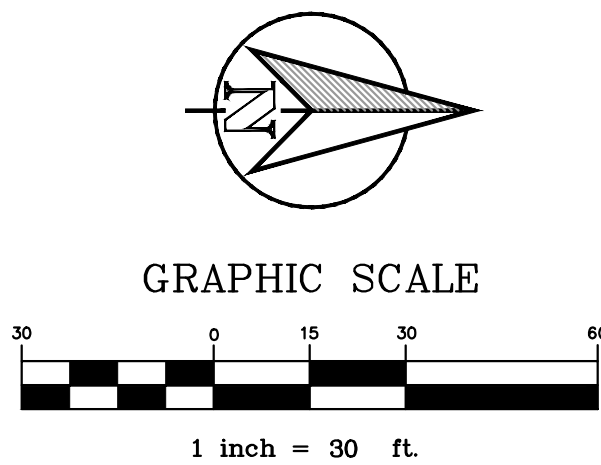
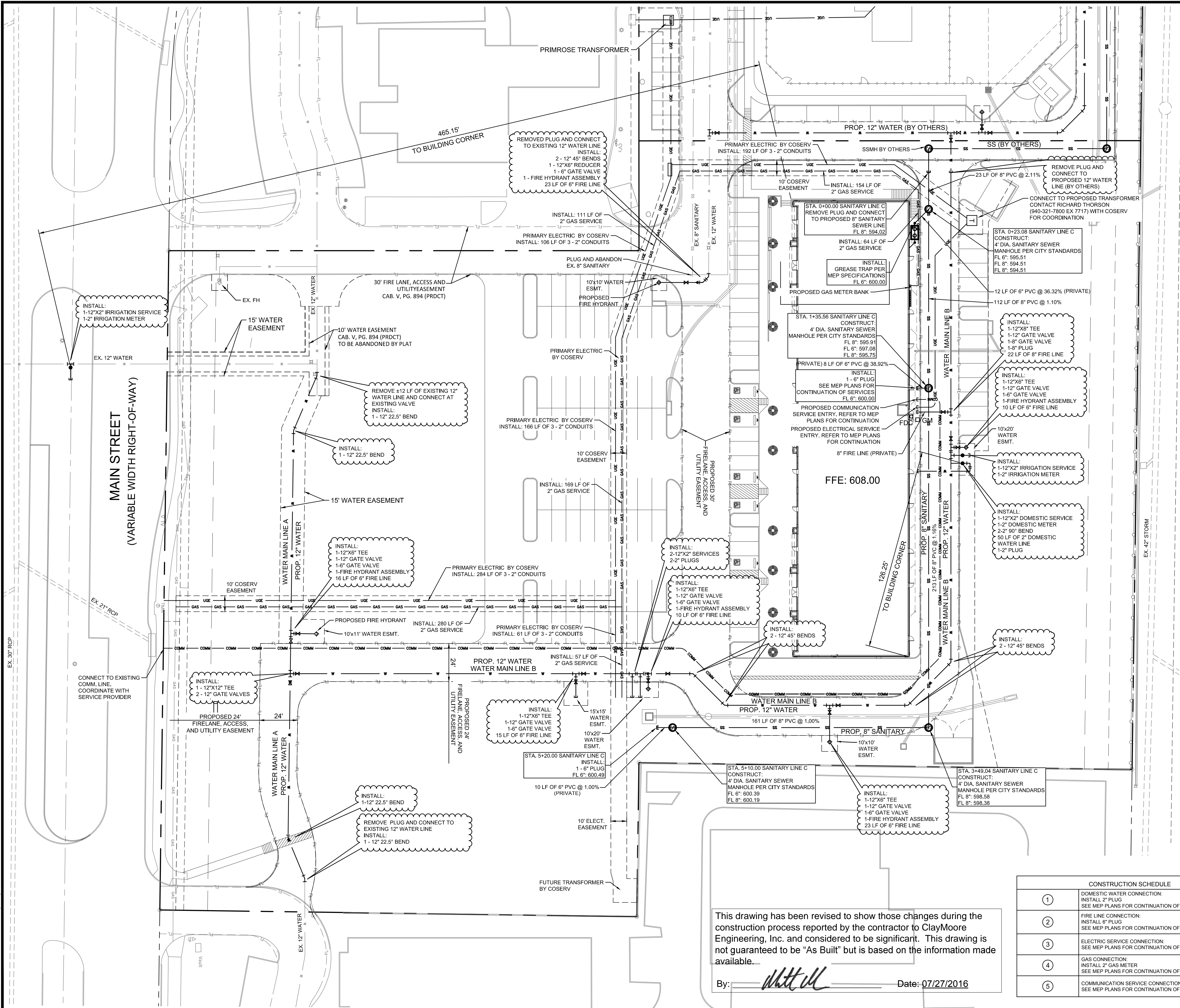


PLOTTED BY: DENG TORRES

[illegible]



PLOTTED BY: BOBBY KUBIN  
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 LOCATION: Z:\PROJECTS\PROJECTS\2014-104 CDG FRISCO PRIMROSE CADD\PROJECTS\CDG\12 UTILITY PLAN.DWG  
 LAST SAVED: 7/27/2016 1:40 PM



LEGEND	
	EXISTING WATER LINE
	PROPOSED WATER LINE
	EXISTING SANITARY SEWER LINE
	PROPOSED SANITARY SEWER LINE
	EXISTING OVERHEAD ELECTRIC
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED METER
	PROPOSED VALVE
	PROPOSED PLUG
	PROPOSED FIRE HYDRANT
	PROPOSED FDC
	PROPOSED REDUCER
	PROPOSED BENDS

- NOTES**
- CONTRACTOR SHALL COORDINATE WITH FRANCHISE UTILITY COMPANIES AND IRRIGATION PLANS TO DETERMINE QUANTITY, SITE, AND LOCATION FOR ALL CONDUIT AND SLEEVING REQUIRED TO SERVE BUILDING AND SITE. ALL CONDUIT AND SLEEVES SHALL BE INSTALLED PRIOR TO SUBGRADE PREPARATION AND PAVING.
- FRANCHISE UTILITY NOTES:**
- THE GAS, ELECTRIC AND TELEPHONE INFORMATION SHOWN ON THIS PLAN IS BASED UPON THE LATEST INFORMATION AVAILABLE FROM THE RESPECTIVE FRANCHISE UTILITY COMPANIES. IT IS INTENDED FOR PURPOSES OF GENERAL BIDDING AND BASIC CLARITY. SPECIFIC JOB SITE CONDITIONS SHALL BE FIELD VERIFIED PER NOTES 2 THROUGH 4 BELOW. THE FRANCHISE UTILITY CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR SAID FIELD CONDITIONS AND ASSOCIATED REVISIONS REQUIRED BY THE RESPECTIVE UTILITY COMPANIES INVOLVED.
  - THE FRANCHISE UTILITY CONTRACTOR SHALL CONTACT THE RESPECTIVE FRANCHISE UTILITY COMPANIES, VERIFY ALL REQUIREMENTS AND EQUIPMENT, AND FURNISH AND INSTALL, INCLUDING BUT NOT LIMITED TO, ALL METERS, TRANSFORMERS, CONDUIT, CONCRETE PADS, TRENCHING, AND BACKFILL NECESSARY FOR PROPER INSTALLATION. FRANCHISE UTILITY CONTRACTOR SHALL ALSO PAY ALL FEES AND CHARGES INCURRED AND COORDINATE WITH OTHER FRANCHISE UTILITY COMPANIES.
  - THE FRANCHISE UTILITY CONTRACTOR SHALL FIELD VERIFY, IN THE PRESENCE OF THE RESPECTIVE UTILITY COMPANY REPRESENTATIVES, THE LOCATION OF ALL EXISTING AND PROPOSED UTILITY SERVICES AND EQUIPMENT. THE FRANCHISE UTILITY CONTRACTOR SHALL INCLUDE IN HIS BID SUFFICIENT FUNDS TO COVER ALL COSTS REQUIRED BY UTILITY COMPANIES TO PROVIDE NEW SERVICES AND/OR UPGRADE EXISTING SERVICES. NO ALLOWANCES WILL BE MADE FOR FRANCHISE UTILITY CONTRACTOR'S UNFAMILIARITY WITH THE EXISTING CONDITION, REQUIREMENTS OF THE NEW CONDITIONS, AND/OR FAILURE TO COORDINATE INSTALLATION.
  - CONTRACTOR SHALL VERIFY THAT METER AND TRANSFORMER LOCATIONS SHOWN MEET DESIGN CRITERIA BY FRANCHISE UTILITY COMPANIES FOR, BUT NOT LIMITED TO, THE OFFSET DISTANCE FROM FACE OF BUILDING.

CONSTRUCTION SCHEDULE	
①	DOMESTIC WATER CONNECTION: INSTALL 2" PLUG SEE MEP PLANS FOR CONTINUATION OF SERVICE
②	FIRE LINE CONNECTION: INSTALL 8" PLUG SEE MEP PLANS FOR CONTINUATION OF SERVICE
③	ELECTRIC SERVICE CONNECTION: SEE MEP PLANS FOR CONTINUATION OF SERVICE
④	GAS CONNECTION: INSTALL 2" GAS METER SEE MEP PLANS FOR CONTINUATION OF SERVICE
⑤	COMMUNICATION SERVICE CONNECTION: SEE MEP PLANS FOR CONTINUATION OF SERVICE

PROJECT BENCHMARK:  
 STANDARD CITY OF FRISCO MONUMENT  
 STATION NO. 7 AND ALUMINUM DISK LOCATED  
 BETWEEN A SIDEWALK AND GUARD RAIL ON THE  
 WEST SIDE OF TEEL PARKWAY SOUTH OF THE  
 INTERSECTION OF TEEL PARKWAY AND  
 ELDERADO PARKWAY.  
 ELEVATION : 589.43 FEET

TEXAS REGISTRATION #14199  
**CLAYMOORE**  
**ENGINEERING**  
 1903 CENTRAL DRIVE, SUITE 400  
 FORT WORTH, TX 76101  
 PHONE 817.258.0072  
 WWW.CLAYMOORE.COM

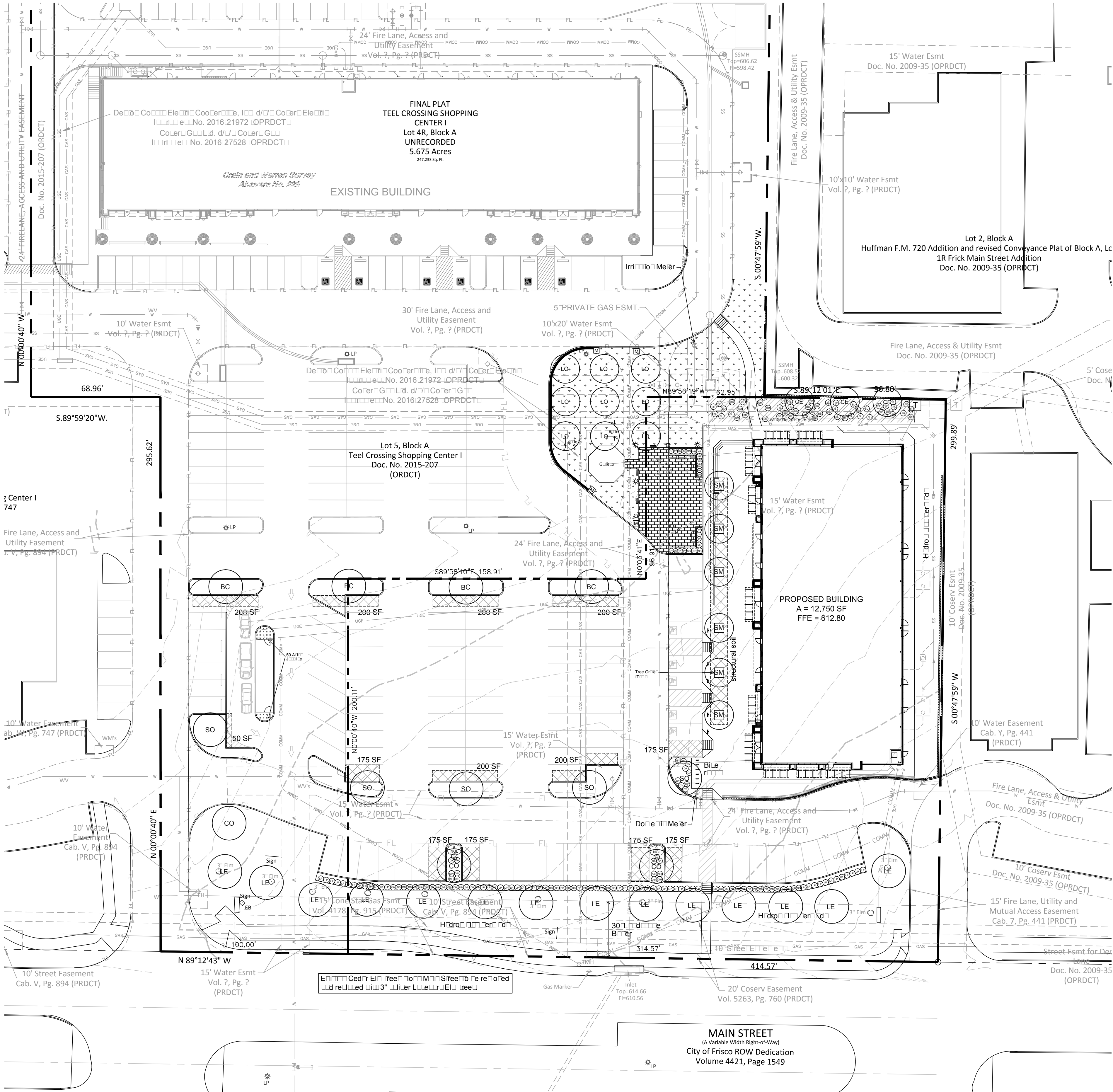
STATE OF TEXAS  
 MATT MOORE  
 95813  
 LICENSED PROFESSIONAL ENGINEER  
 05/19/2016

**TEEL CROSSING**  
**MAIN STREET**  
**FRISCO, TX**

UTILITY PLAN  
 SHEET  
**C-12**

DESIGN: BJK  
 DRAWN: BJK  
 CHECKED: MAM  
 DATE: 05/19/2016  
 FILE NO.





TREE LEGEND

CE	Ced. Elm	CO	Cornus
LE	Live Oak	SO	Shrub
SM	Small Tree	BC	Bald Cypress
LO	Live Oak		

SHRUB LEGEND

LP	Large Flowering Shrub	RY	Red Yucca
DA	Daylily	AJ	Asplenium
DH	Daylily	SE	Sea Purslane
DB	Daylily	SM	Small Tree
NGL	Neon Gold	BL	Blue
NR	Nellie R. Seligman	IS	Iron
MS	Moss	BB	Baby Blue
DY	Daylily		

HATCH LEGEND

	Structural Soil Area		Water Retention
	Solid Sod		Water Retention

LANDSCAPE NOTES

- The tree shall be planted in the center of the lot.
- Install 4" water retentive mulch around the tree.
- Install 4" Bird Board edging around the tree.
- Shrub to be 12' high and 12' wide at 10' height.
- Shrub to be 12' high and 12' wide at 10' height.
- Install 4" water retentive mulch around the tree.
- Hydro mulch or solid mulch around the tree.
- Provide CU mulch around the tree to be 12' high and 12' wide at 10' height.
- Tree to be 12' high and 12' wide at 10' height.

TEEL CROSSING PHASE 2  
MAIN STREET  
FRISCO, TX

LANDSCAPE PLAN

DESIGN: MBT  
DRAWN: MBT  
CHECKED: DD  
DATE: 05/23/2018

SHEET  
L-1

PROJECT BENCHMARK:  
STANDARD CITY OF FRISCO MONUMENT  
STATION NO. 7 AND ALUMINUM DISK LOCATED  
BETWEEN A SIDEWALK AND GUARD RAIL ON THE  
WEST SIDE OF TEEL PARKWAY SOUTH OF THE  
INTERSECTION OF TEEL PARKWAY AND  
ELDORADO PARKWAY.  
ELEVATION 589.43 FEET





1. No excavation shall occur in city R.O.W. without a R.O.W. permit—contact Public Works Department.
2. The Contractor shall mark all water lines, sewer lines, and tree locations prior to calling for ROW permit.
3. The landscape installation shall comply with approved landscape drawings prior to Final Acceptance by the City and issuance of a Certificate of Occupancy. Contact Development Services Landscape architect for a landscape inspection.
4. Water meters, cleanouts and other appurtenances, shall be accessible, adjusted to grade, clearly marked with flagging, and compliant with Public Works Department standards prior to calling for landscape and final R.O.W. inspections.

1. Plantings and landscape elements shall comply with Engineering Standards, Public R.O.W. Visibility requirements.
2. Unless otherwise specified, trees shall be planted no less than 6' from curbs, and 4' from sidewalks, utility lines, and screening walls. The City has final approval for all tree placements.
3. A Three foot radius around a fire hydrant shall remain clear of plant materials pursuant to the Fire Code.
4. Street trees, where required, shall be (10') minimum from the center of a storm sewer curb inlet box and the edge of the root ball shall be (4') minimum from the water meter.
5. All plants shall be grown and harvested in accordance with [The American Standard for Nursery Stock](#) ([ANSI Z60.1-2004](#))
6. Tree planting shall comply with details herein and the [International Society of Arboriculture \(ISA\)](#) standards.
7. Tree pits shall be tested for water percolation. If water does not drain out of tree pit within 24-hours, the tree shall be moved or drainage shall be provided.
8. Native site topsoil is to be protected from erosion or stockpiled.
9. Native site topsoil shall be laboratory tested by and accredited laboratory and amended per said laboratory's recommendations.



## LANDSCAPE & TREE PROTECTION NOTES

1. Contact Development Services for a Tree Removal Permit at 972-292-5300 prior to removal or transplanting of any trees.
2. All trees which are to remain on site shall be protected with a (4") tall brightly colored plastic fence, or silt fence, placed at the drip line of the tree.
3. Prior to the Pre-construction meeting or obtaining a grading permit, all tree markings and protective fencing shall be installed by the owner and shall be inspected by the Development Services Landscape Architect.
4. No equipment shall be cleaned, or harmful liquids deposited within the limits of the root zone of trees which remain on site.
5. No signs, wires, or other attachments shall be attached to any tree to remain on site.
6. Vehicular and construction equipment shall not park or drive within the limits of the drip line.
7. Grade changes in excess of 3 inches (cut or fill) shall not be allowed within a root zone, unless adequate tree preservation methods are approved by the City.
8. No trenching shall be allowed within the drip-line of a tree, unless approved by the City.
9. All removed trees shall be chipped and used for mulch on site or hauled off-site.
10. All tree maintenance techniques shall be in conformance with [American National Standards for Tree Care Operations](#), ANSI A300 industry identified standards. Improper or malicious pruning techniques are strictly prohibited.

"I \_\_\_\_\_ being a landscape architect or arborist attest that the identification and size of trees identified on this survey are correct and that all Protected Trees have been shown."

Ci o Fri o, Te  
LANDSCAPE CALCULATIONS

To:  Site:  Are:  P:  e:  d:  247,233  re:  5,675  re:

Site:  Tree:

---

12 Tree:  re:

M:  S:  re:  FM: 720

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Free Fro L d e	Required	Provided
Min Free 414.57 LF	14 o o free	14 o o free
1 o o free per 30		

F <sub>1</sub> de Tree	177 LF	Required	Provided
1 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> tree per 30 <input type="checkbox"/>		6 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> tree <input type="checkbox"/>	6 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> tree <input type="checkbox"/>

Water Rejected Code	Provided	Rejected	Provided
15 SF er Permitted	123	1,845	2,537
1 000000 reer 500		4 reer	6 reer
Permitted			
15 SF er Permitted	90	1,350	1,350
1 000000 reer 500		3 reer	3 reer

## PLANT LIST

9	LO	Line O□□	□□er□□□□□□□□□□	3" □□.65 □□.12□□.5"□□re□□d
6	SM	S□□□□□□□□□□	A□□er □□□□□□□□□□ Fire Dr□□□□□	3" □□.65 □□.12□□.5"□□re□□d
3	CO	C□□□□□□□□□□	□□er□□□□□□□□□□	3" □□.65 □□.12□□.6"□□re□□d
3	CE	Ced□□r El□□	U□□□□□□□□□□□□□□	3" □□.65 □□.12□□.6"□□re□□d
4	BC	B□□ld C□□□□□□□	□□□□□□□□□□□□□□	3 1/2" □□.65 □□.12□□.5"□□re□□d
5	SO	S□□□□□□□□□□	□□er□□□□□□□□□□	3" □□.65 □□.12□□.6"□□re□□d
14	LE	L□□□□□□□□□□	U□□□□□□□□□□□□□□	3" □□.65 □□.12□□.6"□□re□□d

52	LP	Catherine Fritchie Street	Lorraine Street	5 ft. 36" o
8	DA	Dorothy Adeline	Adeline Dorothy Lorraine Ed. Gooden	5 ft. 36" o
8	DIH	Dorothy Edith Hester Corbie	Corbie Edith Dorothy	5 ft. 36" o
44	DB	Dorothy Bradford Holl	Holl Dorothy Bradford	5 ft. 36" o
18	NGL	Nellie Gold	Lorraine Nellie Gold	1 ft. 24" o
5	NR	Nellie R. Sae	Nellie R. Sae	5 ft. 36" o
4	MS	Mildred	Mildred Sae Grady	5 ft. 36" o
18	DY	Dorothy	Lorraine Dorothy	5 ft. 36" o
3	RY	Red Y	Hester Lorraine	5 ft. 36" o
50	AJ	Adeline	Tracy Lorraine	1 ft. 24" o
8	SE	Catherine Sedle	Catherine Sedle	1 ft. 24" o
6	SM	See M	Mildred Sae	1 ft. 24" o
14	BL	Little Blue	Sae Little Blue	1 ft. 24" o
11	IS	Isabel Sae	Catherine Isabel	1 ft. 24" o
13	BB	Betty Blue	Adeline Betty	1 ft. 24" o



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ELEVATION □ 589.43 FEET

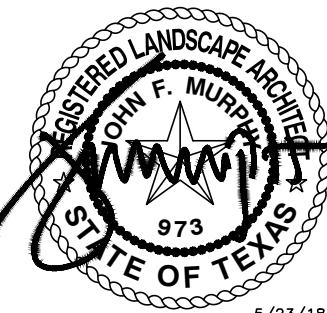
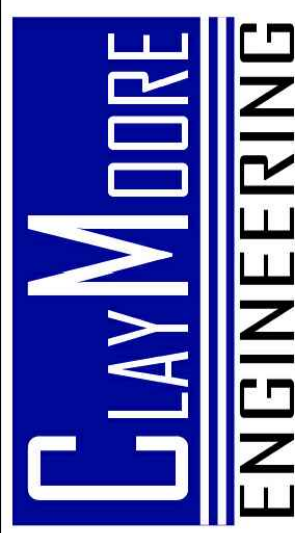


Landscape Architecture - Sustainable Site Planning - Natural Resource Design

**John F. Murphy, ASLA**

6647 Oak Hill Blvd  
Tyler, TX 75703  
john@siteint.com  
scott@siteint.com

512.632.3822 - Mobile  
903.533.8898 - Tyler  
512.589.9584 - Austin  
[www.siteint.com](http://www.siteint.com)



5/23/18

**TEEL CROSSING PHASE 2  
MAIN STREET  
FRISCO, TX**

## LANDSCAPE DETAILS

DESIGN:	MBT
DRAWN:	MBT
CHECKED:	DD
DATE:	05/23/2018

SHEET

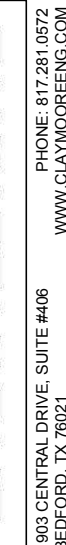
L-2





6647 Oak Hill Blvd.  
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**TEEL CROSSING PHASE 2**  
**MAIN STREET**  
**FRISCO, TX**

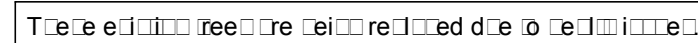
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DESIGN:	MB
DRAWN:	MB
CHECKED:	DD
DATE:	05/23/2018

SHEET

L-3

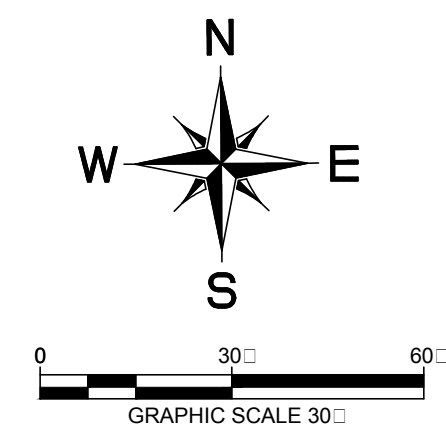
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## 3" Elm



Note: All entries free to the Mid-South and NW corner of old to be removed and replaced in free zone or reenter from either.

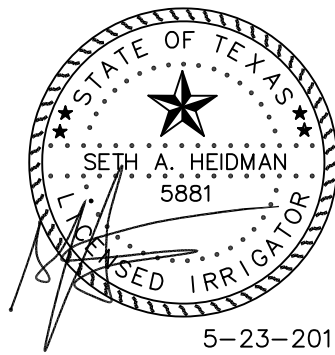


PROJECT BENCHMARK:  
STANDARD CITY OF FRISCO MONUMENT □  
STATION NO. 7 AND ALUMINUM DISK LOCATED  
BETWEEN A SIDEWALK AND GUARD RAIL ON THE  
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ELDORADO PARKWAY.  
ELEVATION □ 589.43 FEET

DESIGN:	MB
DRAWN:	MB
CHECKED:	DD
DATE:	05/23/2018



PLOTTED BY: S HEIDMAN  
 5/24/2018 11:33 AM  
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**TEEL CROSSING PHASE 2**  
**MAIN STREET**  
**FRISCO, TX**

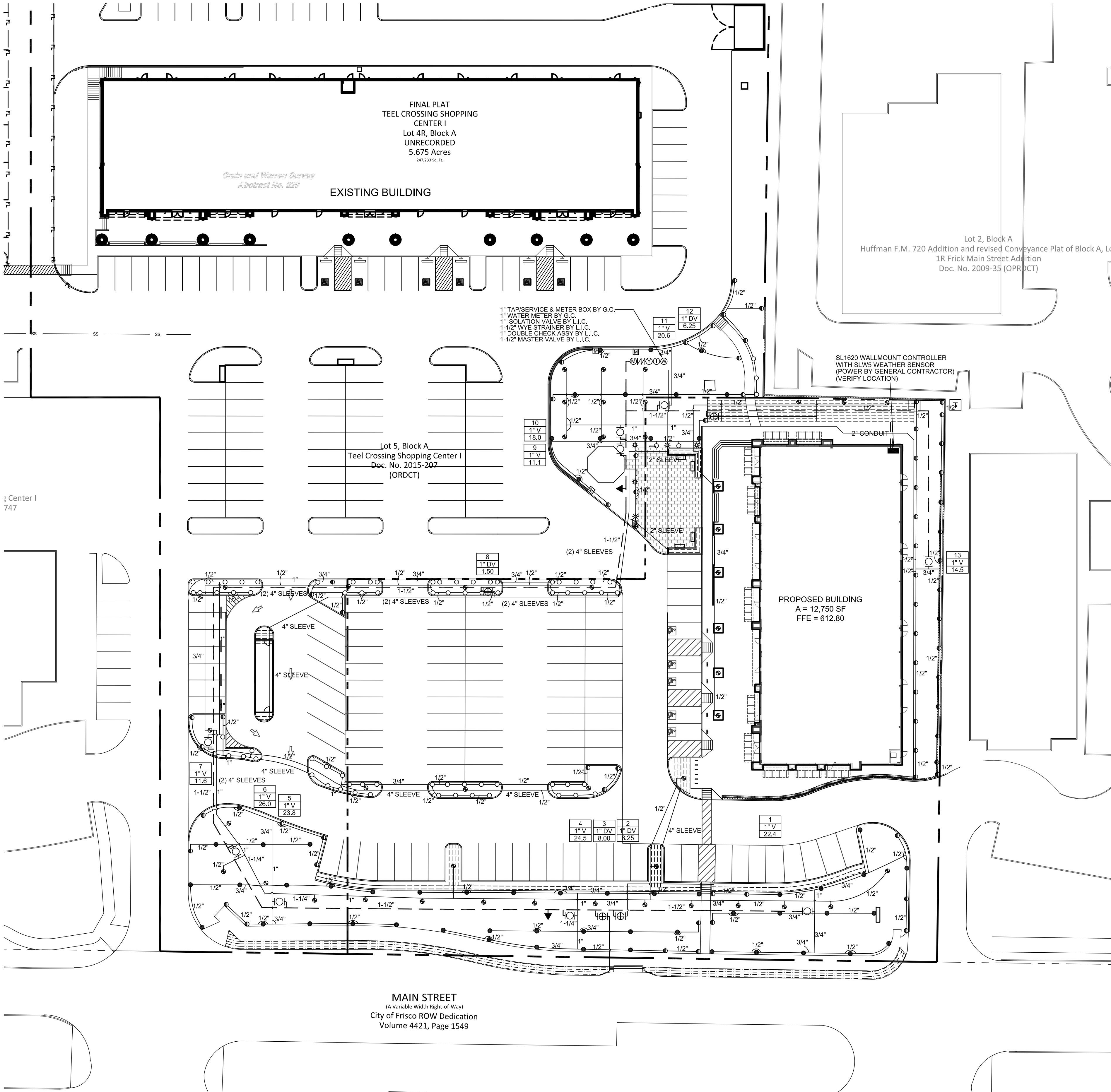
IRRIGATION PLAN

DESIGN: SAH  
 DRAWN: SAH  
 CHECKED: DD  
 DATE: 05/23/2018

SHEET

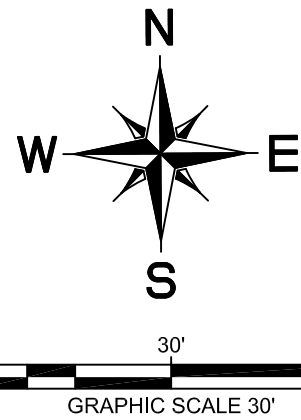
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File No. 2017-165



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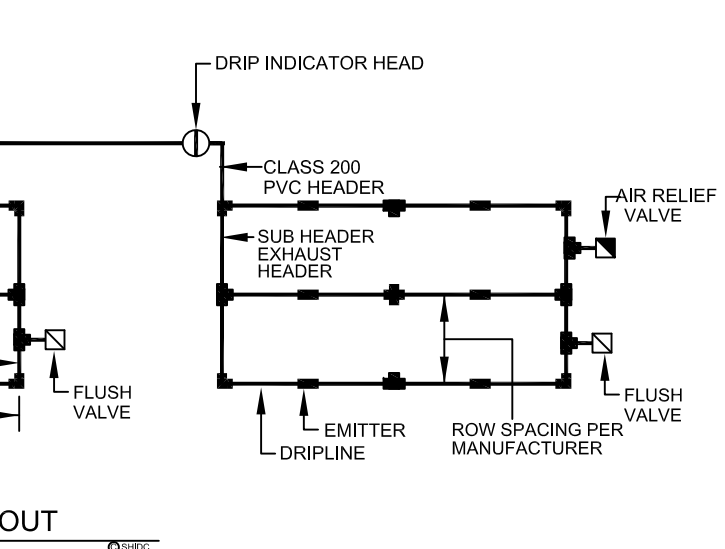
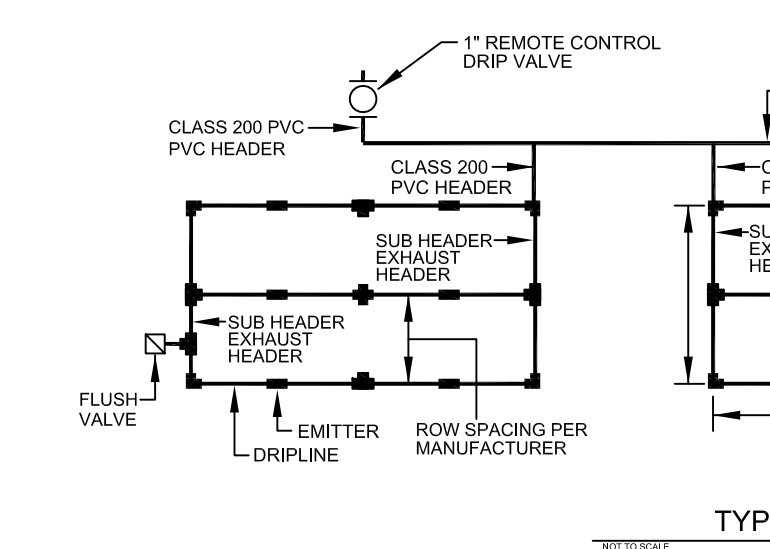
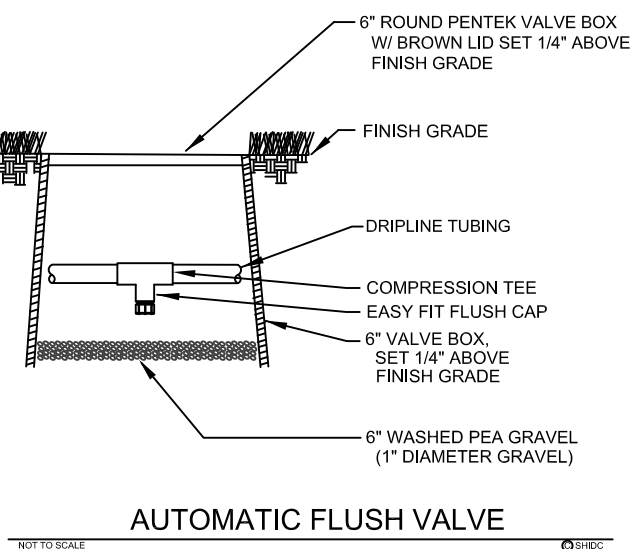
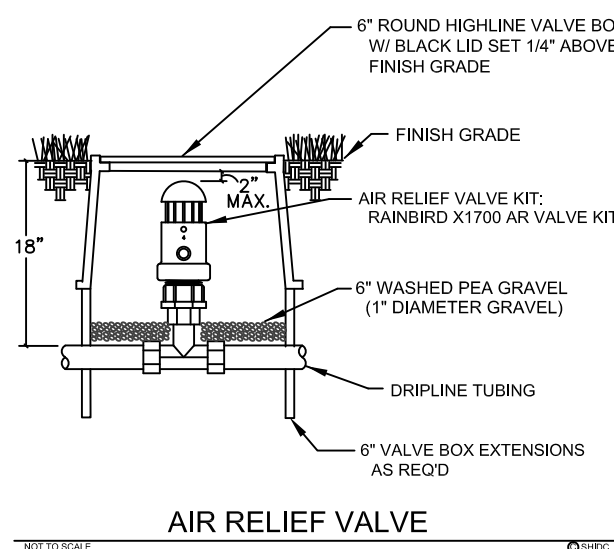
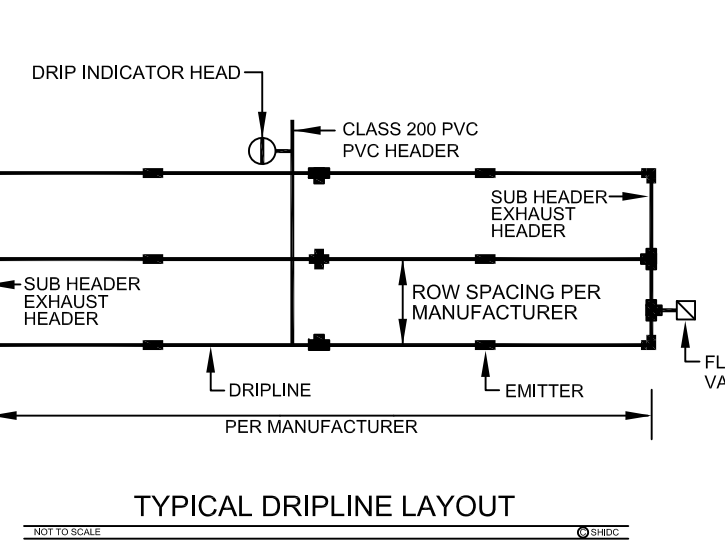
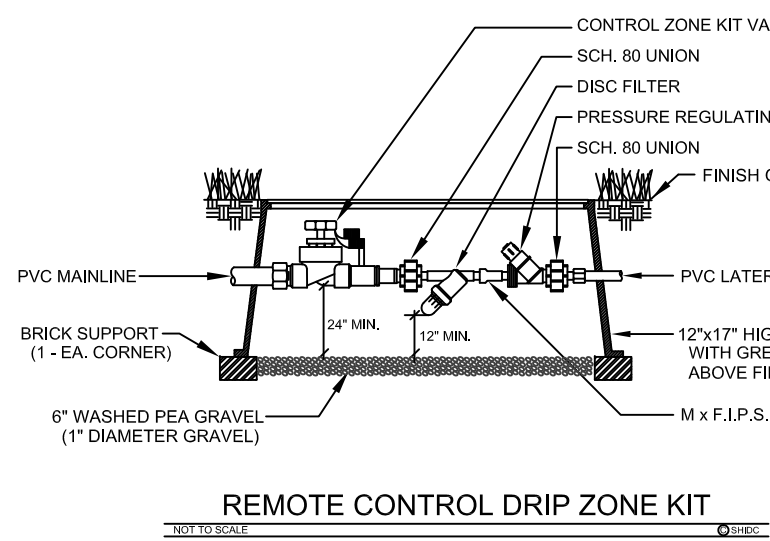
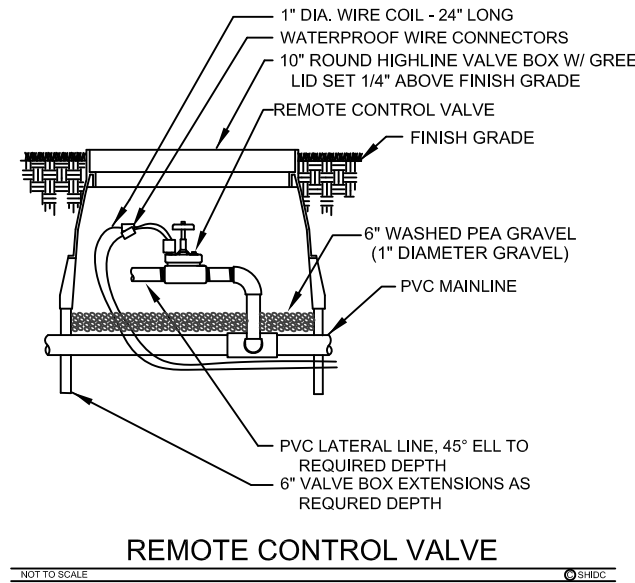
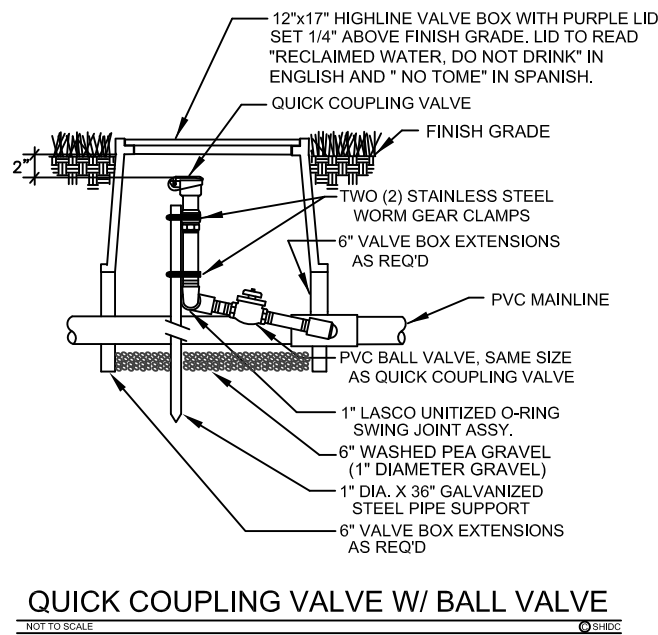
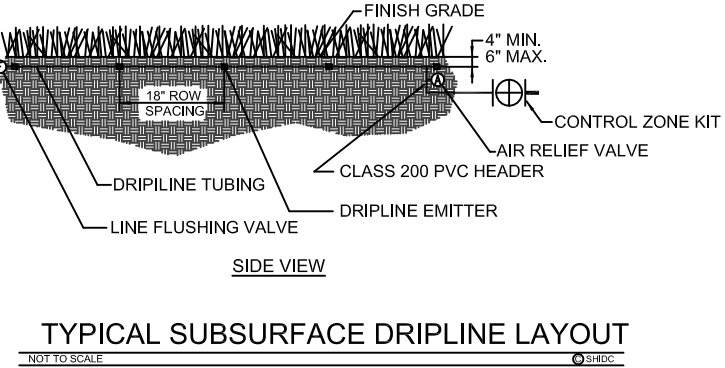
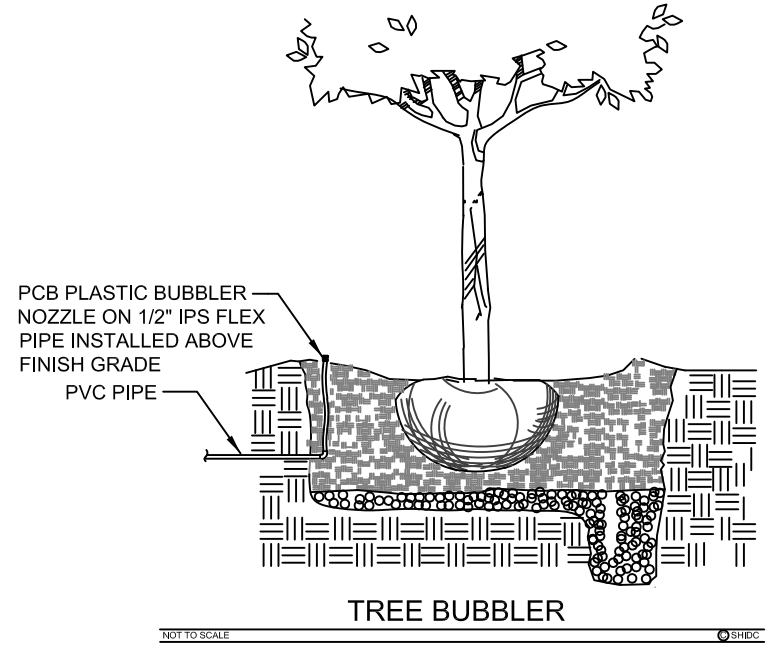
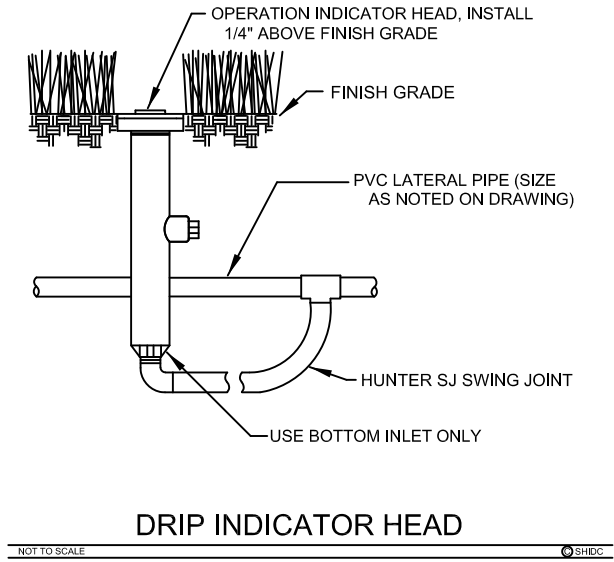
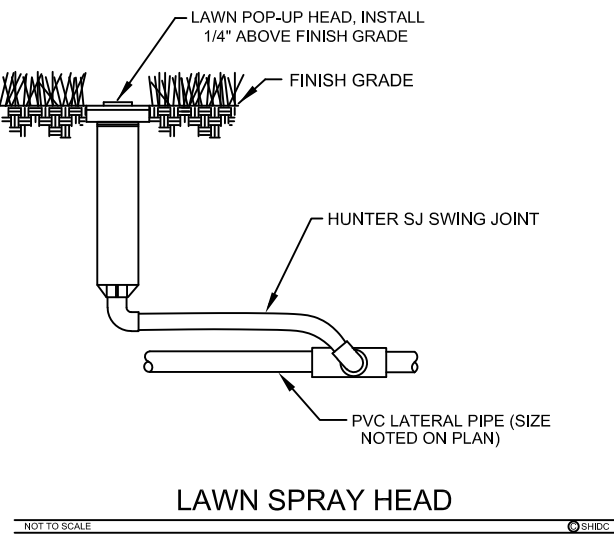
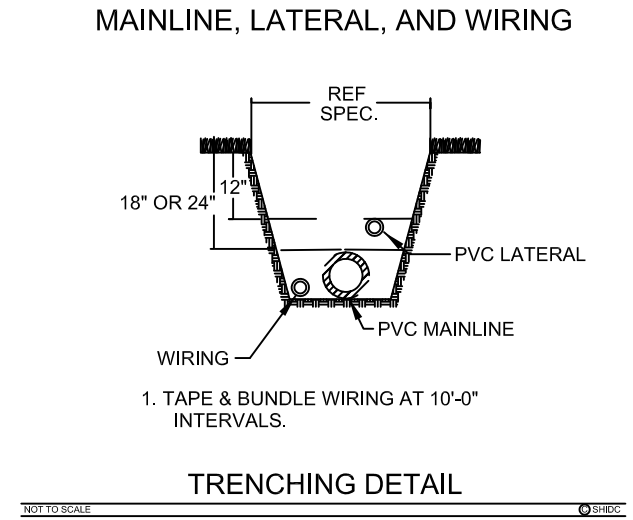
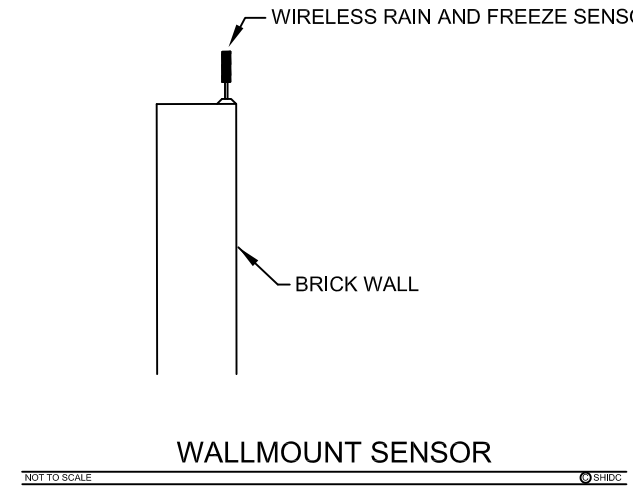
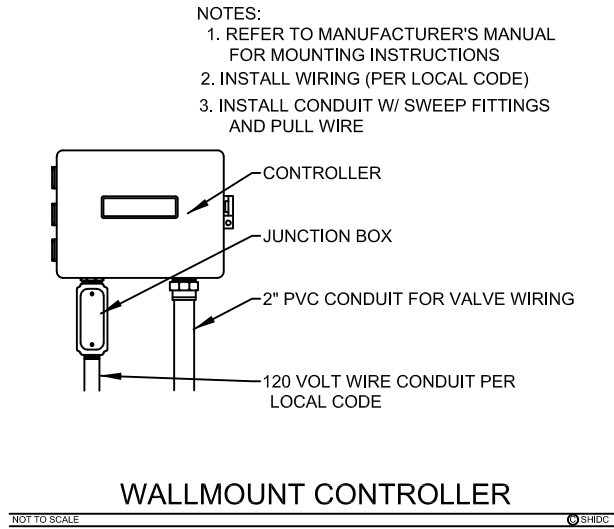
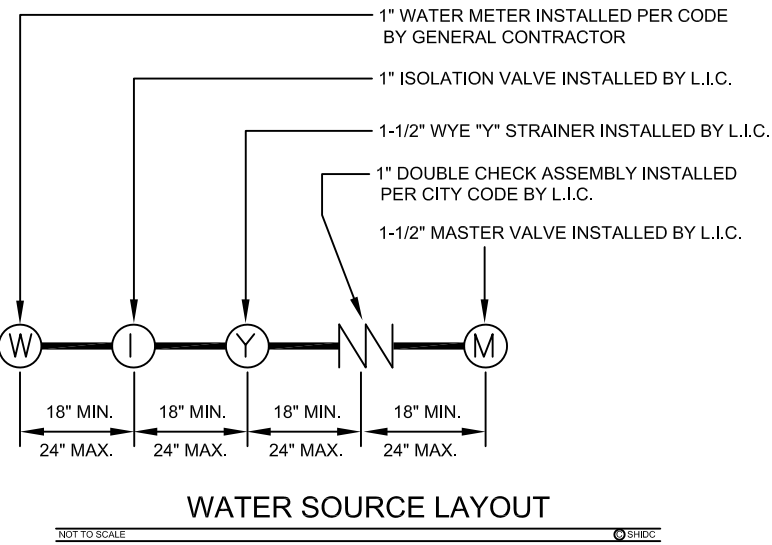
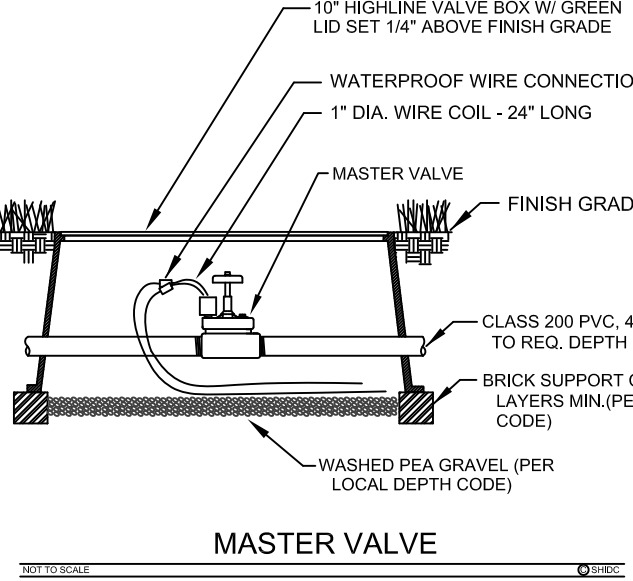
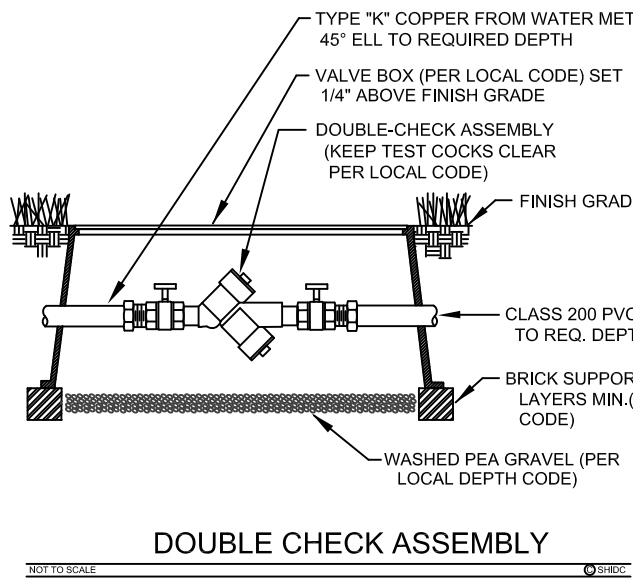
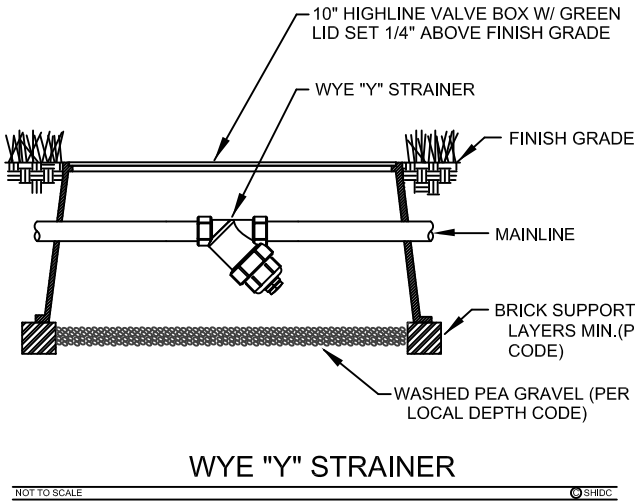
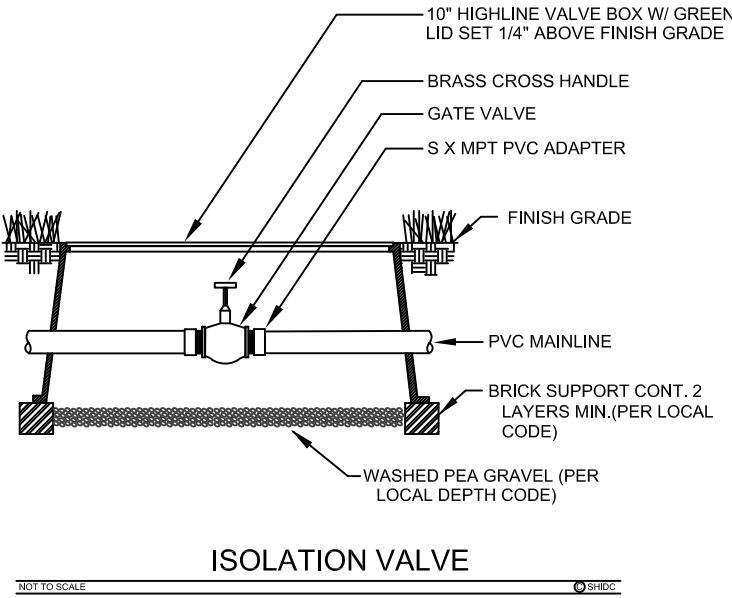
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
○	LAWN SPRAY HEAD	HUNTER (40 PSI)	PROS-04 PRS40 W/ MP1000 ROTATOR NOZZLES
●	LAWN SPRAY HEAD	HUNTER (40 PSI)	PROS-04 PRS40 W/ MP2000 ROTATOR NOZZLE ON HUNTER SJ SWING JOINT
●	LAWN SPRAY HEAD	HUNTER (40 PSI)	PROS-04 PRS40 W/ MP3000 ROTATOR NOZZLE ON HUNTER SJ SWING JOINT
⊕	BUBBLER HEAD	HUNTER (30 PSI)	PCB-50 NOZZLE ON HUNTER SJ SWING JOINT
⊕	BUBBLER HEAD	HUNTER (30 PSI)	PCB-10 NOZZLE ON HUNTER SJ SWING JOINT
▲	QUICK COUPLING VALVE	HUNTER	HQ-DNP WITH LASCO BALL VALVE, PURPLE LID READS "RECLAIMED WATER, DO NOT DRINK" IN ENGLISH AND "NO TOME" IN SPANISH.
⊗	REMOTE CONTROL VALVE	HUNTER	ICV SERIES WITH ACCU-SYNC PRESSURE REGULATOR, REFER TO PLANS FOR SIZE
■	CONTROLLER	WEATHERMATIC	SL1620 WALLMOUNT WITH SLW5 WIRELESS ET WEATHER SENSOR
—	MAINLINE PIPING	REFER TO SPEC.	CLASS 200 PVC
—	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
⊗	REMOTE CONTROL DRIP VALVE	HUNTER	ICV-100 CONTROL ZONE KIT, REFER TO PLAN FOR SIZE
—	DRIP HEADER PIPING	REFER TO SPEC.	CLASS 200 PVC UNLESS OTHERWISE NOTED
⊗	PLANTING BED DRIPLINE TUBING	HUNTER	PLD-CV-06-18 AT 18" O.C. WITH PLD INSERT FITTINGS, 12 GA. GALVANIZED STAKES AND DRIP INDICATOR HEAD
⊗	TURF SOD DRIPLINE TUBING	HUNTER	PLD-CV-06-18 AT 18" O.C. WITH PLD INSERT FITTINGS, 12 GA. GALVANIZED STAKES AND DRIP INDICATOR HEAD
⊗	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
⊗	ISOLATION VALVE	NIBCO	#T-29, REFER TO PLAN FOR SIZE
⊗	WYE STRAINER	FEBCO	#650, REFER TO PLAN FOR SIZE
⊗	BACKFLOW PREVENTER	FEBCO	#850BV, REFER TO PLAN FOR SIZE
⊗	MASTER VALVE	HUNTER	ICV, REFER TO PLAN FOR SIZE
⊗	STATION NUMBER		
⊗	VALVE SIZE		
⊗	GPM (APPROX.)		



PROJECT BENCHMARK:  
 STANDARD CITY OF FRISCO MONUMENT -  
 STATION NO. 7 AND ALUMINUM DISK LOCATED  
 BETWEEN A SIDEWALK AND GUARD RAIL ON THE  
 WEST SIDE OF TEEL PARKWAY SOUTH OF THE  
 INTERSECTION OF TEEL PARKWAY AND  
 ELDORADO PARKWAY.  
 ELEVATION = 589.43 FEET



PLOTTED BY: S. HEIDMAN  
 5/24/2018 11:33 AM  
 C:\USERS\SEID\DOCUMENTS\2018\JOBS\18049\IFC DATED 5.24.18\_TEEL CROSSING PHASE 2\IRRIGATION PLANS.DWG  
 LOCATION: 5/24/2018 11:32 AM  
 LAST SAVED:



#### NOTES:

- ALL 24 VOLT LEAD AND COMMON VALVE WIRING SHALL BE A MINIMUM OF UF-14 GA. SINGLE CONDUCTOR. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. WIRE SPLICES SHALL BE 3M-DBY PERMANENT AND WATERPROOF PER THE SPECIFICATIONS.
- COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.
- PIPING AND VALVES IN PAVING SHOWN FOR CLARITY, INSTALL IN ADJACENT PLANTING BED OR LAWN AREA.
- LATERAL PIPING SHALL HAVE A MINIMUM OF 12" OF COVER. MAINLINE AND PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 18" OF COVER. ALL FITTINGS TO BE SCHEDULE 40 PVC. USE WELD-ON #705 SOLVENT AND #P-68 PRIMER FOR PVC CONNECTIONS PER THE SPECIFICATIONS.
- SIZE ALL LATERAL PIPING PER MANUFACTURER'S RECOMMENDATIONS OF NOT EXCEEDING 5 FPS. REFERENCE PIPE SIZE CHART.
- CONNECT LAWN AND DRIP INDICATOR HEADS TO LATERAL PIPING WITH HUNTER 1/2" SJ SWING JOINT PER DETAIL SHOWN.
- INSTALL QUICK COUPLING VALVES IN TWELVE BY SEVENTEEN (12"x17") INCH HIGHLINE VALVE BOX PER DETAIL SHOWN. CONNECT QUICK COUPLING VALVES TO MAINLINE PIPE WITH HUNTER HSJ SWING JOINT PER DETAIL SHOWN. SUPPLY OWNER WITH ONE (1) COUPLER KEY WITH SWIVEL HOSE BIBB EACH. VALVES TO BE INSTALLED SO THAT TOP OF QUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX TOP. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.
- PERFORM ELECTRICAL WORK IN ACCORDANCE WITH LOCAL BUILDING CODE. POWER (120V) SHALL BE LOCATED IN A JUNCTION BOX AND HARDWIRED WITHIN FIVE (5') FEET OF CONTROLLER LOCATION BY GENERAL CONTRACTOR.
- INSTALL REMOTE CONTROL VALVES AND WIRE SPLICES IN TEN (10") INCH ROUND HIGHLINE VALVE BOXES PER DETAIL SHOWN.
- INSTALL SLEEVES UNDER ALL HARDSCAPE SURFACES SUCH AS ROADS, DRIVES, WALKS, ETC. WHETHER SHOWN OR NOT. SLEEVES SHALL BE CLASS 200 PVC, SIZED AS NOTED ON PLANS AND INSTALLED BY LANDSCAPE IRRIGATION CONTRACTOR.
- ADJUST NOZZLES FOR SITUATIONS THAT REQUIRE LESS THAN 90° DEGREE RADIUS SPRAY. NO OVERSPRAY ALLOWED ON ANY HARDSCAPE SURFACES.
- DESIGN PRESSURE IS 61.0 PSI. STATIC PRESSURE IS 65 PSI. TEN DAYS PRIOR TO START OF CONSTRUCTION, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN STATED DO NOT START WORK UNTIL NOTIFIED TO PROCEED BY OWNER.
- MINIMUM DISTANCE BETWEEN MAIN LINE AND LATERAL LINE FITTINGS (EXCEPT FOR REDUCER BUSHINGS) TO BE EIGHTEEN (18") INCHES AND MINIMUM HORIZONTAL DISTANCE OF TWENTY-FOUR (24") INCHES BETWEEN ANY VALVES THAT ARE INSTALLED SIDE BY SIDE.
- STAKE TREE BUBBLER LOCATIONS AND RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- INSTALL REMOTE CONTROL DRIP ZONE KIT VALVES IN TWELVE BY SEVENTEEN (12"x17") INCH HIGHLINE VALVE BOXES PER DETAIL SHOWN.
- INSTALL DRIPLINE MINIMUM OF 2" AND A MAXIMUM OF 4" FROM HARDSCAPE SURFACES. STAKE DRIPLINE AND RECEIVE APPROVAL FROM OWNER'S REPRESENTATIVE BEFORE INSTALLATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDATIONS OF 5'-0" PER SECOND IN DRIPLINE.
- PROVIDE AND INSTALL DISTRIBUTION TUBING, STAKES, EMITTERS, TRANSFER FITTINGS, DIFFUSER BUG CAP, CONTROL ZONE KITS, ETC. NECESSARY FOR PROPER INSTALLATION OF THE BEDS. ALL PVC HEADER PIPING TO BE CLASS 200 PVC SOLVENT WELD PIPE. INSERT ALL HUNTER PLD BARBED FITTINGS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL ONE DRIP INDICATOR HEAD FOR EACH DRIP ZONE. INDICATOR HEAD TO BE A HUNTER ECO INDICATOR HEAD.
- AIR/VACUUM RELIEF VALVE TO BE HUNTER PLD-ARV INSTALLED IN A SIX-INCH (6") HIGHLINE ROUND VALVE BOX WITH 6" OF GRAVEL SUMP. AUTOMATIC FLUSH VALVE TO BE HUNTER AFV INSTALLED IN A SIX-INCH (6") HIGHLINE ROUND VALVE BOX WITH 6" OF GRAVEL SUMP.
- ALL HUNTER PLD-CV DRIPLINE AND DISTRIBUTION TUBING TO BE INSTALLED BELOW FINISH GRADE APPROXIMATELY 4" TO 6" PER MANUFACTURER'S RECOMMENDATIONS. ALL DRIPLINE TO BE INSTALLED MINIMUM OF 1'-4" AND MAXIMUM OF 1'-8" ROW SPACING UNLESS INSTRUCTED OTHERWISE. VERIFY THE EXACT EMITTER FLOW, EMITTER SPACING, AND ROW SPACING WITH MANUFACTURER PRIOR TO INSTALLING TO PROVIDE PROPER PRECIPITATION RATE BASED ON PLANT MATERIAL AND SOIL TYPE. TUBING TO BE STAKED WITH 12 GA. GALVANIZED TIE DOWNS. INSTALL STAKES EVERY 3'-0" ALONG ENTIRE LENGTH OF TUBING AND A MINIMUM OF 24" FROM ANY FITTINGS.
- INCLUDE THE FOLLOWING ALLOWANCES FOR PROVIDING AND INSTALLING AIR RELIEF VALVES AND FLUSH VALVES FOR THE DRIP SYSTEM. EXACT QUANTITY AND LOCATION OF THESE DEVICES WILL BE DETERMINED AT THE TIME OF INSTALLATION. IN GENERAL, ALL AIR RELIEF VALVES WILL BE INSTALLED AT THE HIGH POINTS AND FLUSH VALVES WILL BE INSTALLED AT THE LOW POINTS OF EXHAUST HEADER. ALLOW FOR APPROXIMATELY ONE (1) AIR RELIEF VALVE AND APPROXIMATELY ONE (1) FLUSH VALVE FOR EACH DRIP ZONE KIT.
- IRRIGATION MAINLINES, VALVES, AND CONTROL WIRES SHALL NOT BE LOCATED IN THE CITY OF FRISCO RIGHT-OF-WAY.
- THIS SYSTEM DOES REQUIRE AN ET WEATHER STATION PER CITY REQUIREMENTS.
- LOCATE VALVES A MINIMUM OF THREE FEET AWAY FROM ANY STORM SEWER, WATER, AND SANITARY SEWER LINES AND FIVE FEET AWAY FROM ANY FIRE HYDRANTS AND WATER VALVES.
- ANYTIME HEADS ARE LOCATED IN SUCH A MANNER AS TO BE PARALLEL AND NEAR A PUBLIC WATER AND SANITARY SEWER LINE, THESE HEADS SHALL BE INSTALLED AS STUBBED LATERALS OR BULLHEADS. A MINIMUM OF FIVE FEET SEPARATION IS REQUIRED BETWEEN IRRIGATION MAINLINES AND LATERAL LINES THAT RUN PARALLEL TO PUBLIC WATER AND SANITARY SEWER LINES.
- IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED TO MINIMIZE WATER RUNOFF OR OVERSPRAY ON ALL HARDSCAPE SURFACES.
- ALL IRRIGATION POP-UP SPRAY HEADS LOCATED IN THE CITY OF FRISCO RIGHT-OF-WAY SHALL UTILIZE FLEX PIPE PER SPECIFICATIONS AND DETAILS AND ROTARY HEADS SHALL UTILIZE A SWING JOINT ASSEMBLY PER SPECIFICATIONS AND DETAILS.
- NO REMOTE CONTROL VALVES, QUICK COUPLING VALVES, BACKFLOW PREVENTER, ETC. SHALL BE LOCATED CLOSER THAN TEN FEET FROM THE CURB AT STREET OR DRIVE INTERSECTIONS.
- PROVIDE ALL LABOR AND MATERIAL NECESSARY TO HAND DIG WITHIN ALL EXISTING TREE ROOT ZONES. CONTRACTOR MUST STAKE DITCHES AND RECEIVE APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO ANY TRENCHING OR DIGGING.
- ALL STATE OF TEXAS LAWS/RULES AND ALL LOCAL CODES/ORDINANCES ARE MADE PART OF THESE PLANS AND SPECIFICATIONS WHETHER SHOWN OR NOT. THESE LAWS AND ORDINANCES WILL SUPERCEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS CAUTIONED THAT HE IS TO INCLUDE ANY AND ALL COST NECESSARY TO MEET OR EXCEED THE LAWS OF THE STATE OF TEXAS OR LOCAL CODES CONCERNING LANDSCAPE IRRIGATION.
- A LICENSED IRRIGATOR OR LICENSED IRRIGATION TECHNICIAN SHALL BE ON-SITE AT ALL TIMES WHILE THE LANDSCAPE IRRIGATION SYSTEM IS BEING INSTALLED PER CITY OF FRISCO REQUIREMENTS.

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DESIGN: SAH  
 DRAWN: SAH  
 CHECKED: DD  
 DATE: 05/23/2018

SHEET

IR-2

File No. 2017-165