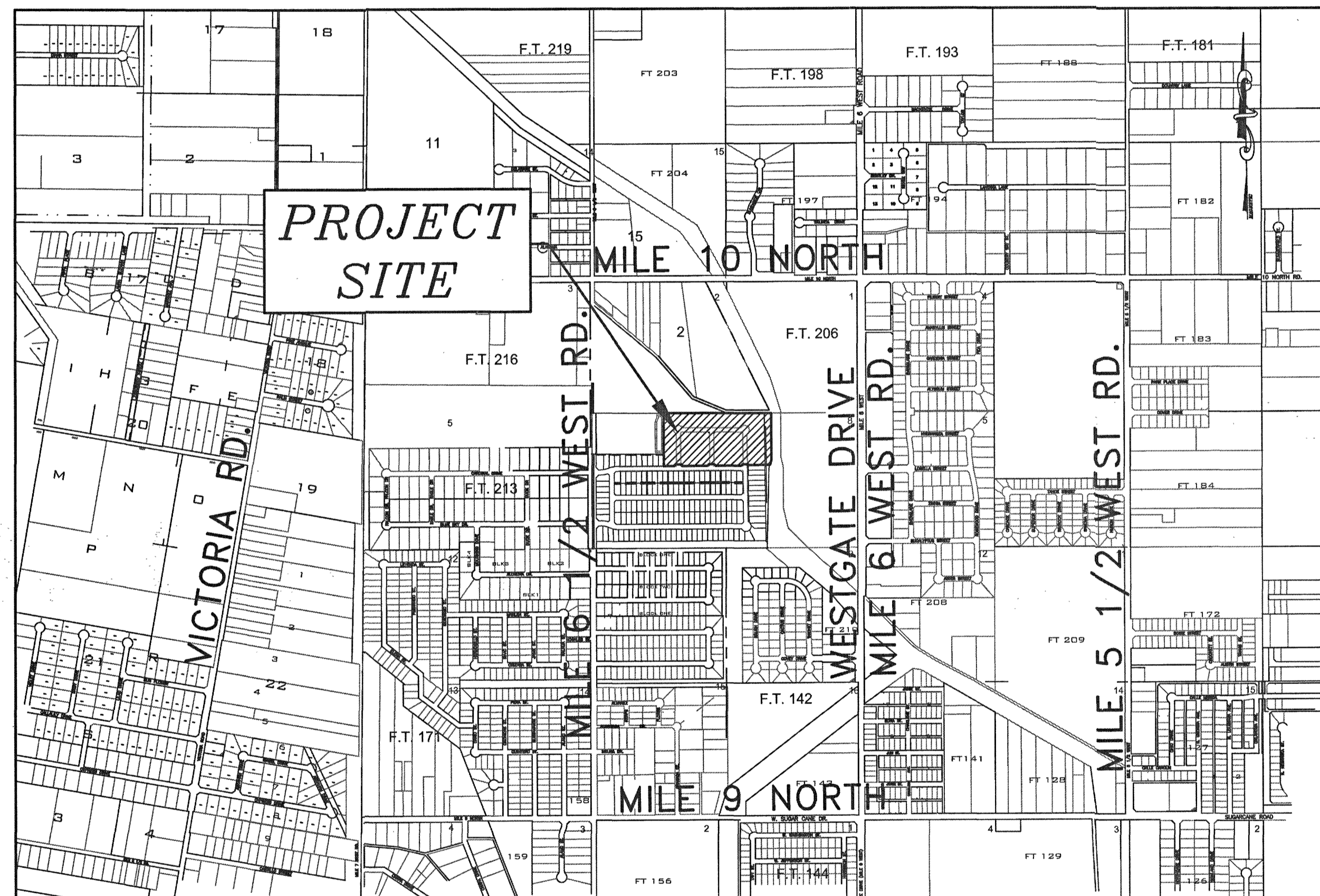


# CONSTRUCTION PLANS FOR

# MONTE CIELO SUBDIVISION PHASE II

## IN

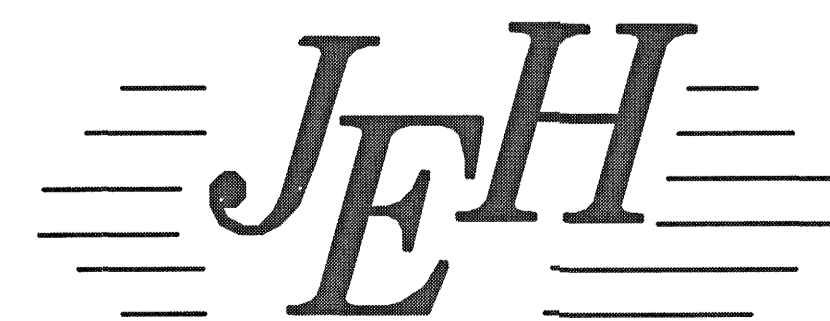
## WESLACO, TEXAS



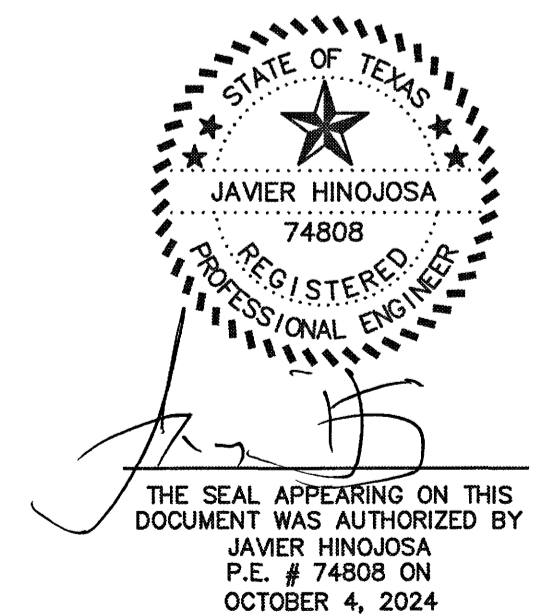
LOCATION MAP  
N.T.S.

### INDEX OF SHEETS

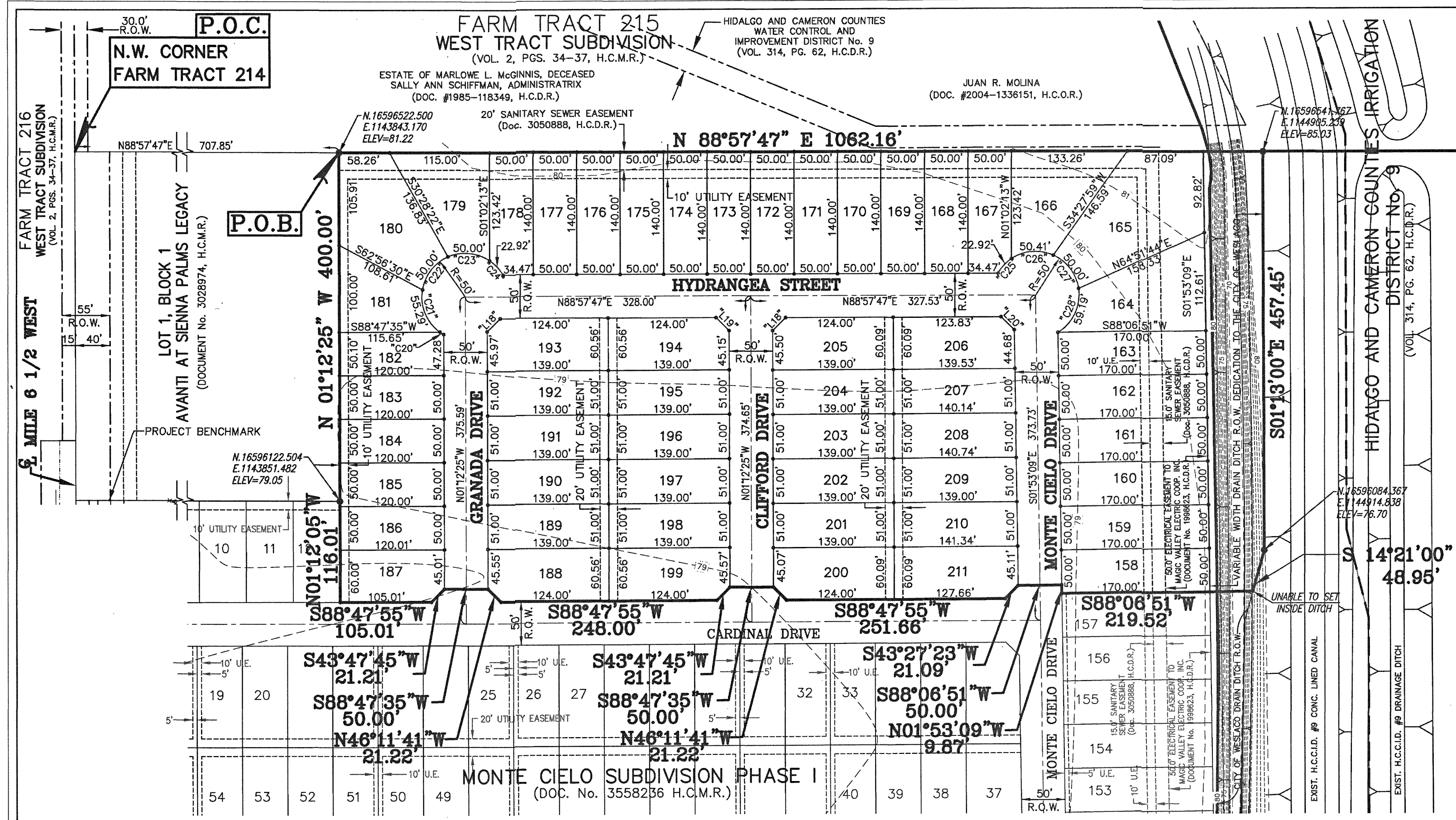
SHEET#	DESCRIPTION
1	GENERAL NOTES
2	SUGGESTED EROSION CONTROL PLAN
3	EXISTING UTILITY AND TOPOGRAPHIC LAYOUT
4	PROPOSED UTILITY LAYOUT
5	SANITARY SEWER PLAN & PROFILE – LINES "D", "F", "G" AND "H"
6	STORM DRAIN PLAN & PROFILE – LINE "BB" AND "FF"
7	WATER DISTRIBUTION
8	STREET PLAN & PROFILE – HYDRANGEA STREET, GRANADA DRIVE, CLIFFORD DRIVE AND MONTE CIELO DRIVE
9	STANDARD SANITARY SEWER DETAILS
10	STANDARD STORM DRAIN DETAILS
11	STANDARD WATER DETAILS
12	STANDARD PAVING DETAILS



**JAVIER HINOJOSA ENGINEERING**  
CONSULTING ENGINEERS  
416 E. DOVE AVENUE McALLEN, TEXAS 78504  
PHONE (956) 668-1588  
javier@javierhinojosaeng.com  
TBPELS FIRM No. F-1295



OCT. 3, 2024



**GENERAL NOTES**

- THIS PROPERTY IS LOCATED IN ZONE "A" AND "X" ON A FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 480334 0450C. WATER REVISION MAY 30, 2009 TO REFLECT "AMR ZONE 'A' IS DEFINED AS 'NO BASE FLOOD ELEVATION DETERMINED'. ZONE 'X' IS DEFINED AS 'AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN'. ZONE 'A' IS FURTHER AMENDED TO ZONE 'X' AS PER LETTER OF MAP AMENDMENT DETERMINATION DOCUMENT (REMOVAL) DATED JULY 10, 2023.
- FINISH FLOOR ELEVATIONS ESTABLISHED MUST BE HIGHER THAN 80.50 OR 18" ABOVE TOP OF CURB OR CENTER LINE OF STREET, WHICHEVER IS GREATER, MEASURED FROM THE CENTER OF THE LOT.
- IN ACCORDANCE WITH THE HIDALGO COUNTY DRAINAGE DISTRICT NO. 1 AND CITY OF WESLACO REQUIREMENTS, MONTE CIELO PHASE I AND II WILL BE REQUIRED TO DETAIN A TOTAL OF 318,970 CUBIC FEET (7.323 ACRES-FEET) OF STORM WATER RUNOFF. DRAINAGE DETENTION IN ACCORDANCE WITH THE LOCAL REQUIREMENTS WILL BE ACCOMPLISHED AS FOLLOWS: THE DEVELOPER SHALL BE RESPONSIBLE TO DETAIN AND ACCOMMODATE MORE THAN THE DETAINED VOLUME SHOWN ABOVE. IT IS DETERMINED AT THE DEVELOPMENT PERMIT STAGE THAT THE DETENTION REQUIREMENTS ARE GREATER THAN STATED ABOVE DUE TO THE IMPERVIOUS AREA BEING GREATER THAN THE ENGINEER CONSIDERED FOR HIS CALCULATIONS OF THIS SUBDIVISION. TOTAL DRAINAGE DETENTION REQUIRED FOR PHASE I AND II WAS CONSTRUCTED AS PART OF MONTE CIELO PHASE I.
- NO PERMANENT STRUCTURES ARE PERMITTED OVER ANY EASEMENTS. EASEMENTS SHALL BE KEPT CLEAR OF BUILDING, SHEDS, SHRUBS, TREES AND OTHER PLANTINGS (EXCEPT LOW, LESS THAN 18" MATURE HEIGHTS, GRASS COVER, GRASS OR FLOWERS) AND OTHER OBSTRUCTIONS THAT WILL INTERFERE WITH THE OPERATIONS AND MAINTENANCE OF THE EASEMENT.
- MINIMUM BUILDING SETBACKS SHALL BE AS FOLLOWS:  
FRONT: 25 FEET  
REAR: 20% OF LOT DEPTH (25.0' MAXIMUM) OR GREATER EASEMENT  
SIDE: 5 FEET  
SIDE CORNER: 10 FEET
- A 4-FOOT SIDEWALK IS REQUIRED ALONG ALL INTERIOR STREETS UPON THE ISSUANCE OF A BUILDING PERMIT. ON CORNER LOTS, THE OWNER SHALL BE RESPONSIBLE FOR THE SIDEWALK ALONG ALL STREETS ADJOINING THE LOT.
- PROJECT BENCHMARK: "1" SQUARE CUT ON TOP OF 5' CONCRETE SIDEWALK LOCATED ALONG THE EAST SIDE OF MILE 6 1/2 WEST ROAD AND THE SOUTH PROPERTY LINE OF AVANTI AT SIENNA PALMS. ELEVATION = 79.718 NORTHING: 1659611.159 EASTING: 1143181.371
- SET "1" IRON ROD ON ALL LOT CORNERS UNLESS OTHERWISE NOTED.
- LANDSCAPING REQUIRED FOR THIS SUBDIVISION SHALL BE AS PER CITY OF WESLACO LANDSCAPE ORDINANCE.
- NO MORE THAN ONE-SINGLE FAMILY DETACHED DWELLING SHALL BE LOCATED ON EACH LOT. APPLICATIONS FOR CONSTRUCTION ARE REQUIRED PRIOR TO OCCUPANCY OF THE LOT.
- A STORM WATER POLLUTION PREVENTION PLAN SHALL BE REQUIRED PRIOR TO CONSTRUCTION AND MUST COMPLY WITH TPDES & FOLLOW SW3P.
- STREET LIGHTS AND STREET SIGNS SHALL BE INSTALLED IN ACCORDANCE TO CITY OF WESLACO ORDINANCE BY THE DEVELOPER PRIOR TO ISSUANCE OF BUILDING PERMIT.
- STREET LIGHTS MUST BE LOCATED AT 300-FOOT MAXIMUM SPACING.
- SITE PLAN AND DETENTION PLAN MUST BE REVIEWED AND APPROVED BY THE CITY OF WESLACO PRIOR TO ISSUANCE OF BUILDING PERMIT.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR DETAINING AND ACCOMMODATING MORE THAN THE DETAINED VOLUME SHOWN ON THIS PLAT IF IT IS DETERMINED AT THE DEVELOPMENT PERMIT STAGE THAT THE DETENTION REQUIREMENTS ARE GREATER THAN STATED ON THIS PLAT, DUE TO THE IMPERVIOUS AREAS BEING GREATER THAN THE PLAT ENGINEER CONSIDERED IN THE HYDRAULIC CALCULATIONS FOR THIS SUBDIVISION.
- CORNER LOT DRIVEWAYS SHOULD BE CONSTRUCTED AT FURTHEST POSSIBLE POINT FROM INTERSECTION AND IN COMPLIANCE WITH ACCESS MANAGEMENT ORDINANCE.
- ANY DAMAGE TO FENCES, SIDEWALKS AND LANDSCAPING MADE MADE FROM THE INGRESS AND EGRESS TO INSPECT AND OR REPAIR ANY UNDERGROUND UTILITY AND THE ELECTRICAL TRANSMISSION LINE AND POWER POLES SHALL BE AT THE LOT OWNERS EXPENSE.
- ALL PRIVACY FENCES ABUTTING DRAIN DITCH RIGHT-OF-WAY SHALL BE PLACED WITHIN EACH INDIVIDUAL LOT AS TO NOT INTERFERE WITH THE MAINTENANCE OF SAID DRAIN DITCH. A SIX FOOT HIGH CEDAR FENCE SHALL BE REQUIRED ALONG SAID DRAIN DITCH RIGHT OF WAY TO BE CONSTRUCTED AT THE INFRASTRUCTURE STAGE OF THE SUBDIVISION.
- CONCRETE MONUMENTS SHALL BE SET AT ALL SUBDIVISION CORNERS.
- TRAFFIC CONTROL AND STREET SIGNS TO BE PROVIDED BY THE DEVELOPER.
- STORM DRAINAGE FROM MONTE CIELO SUBDIVISION PHASE II SHALL TIE-IN TO STORM DRAINAGE FROM MONTE CIELO SUBDIVISION PHASE I AS PER THE APPROVED DRAINAGE REPORT FOR THE MASTER LAYOUT OF SAID SUBDIVISION.

**SUBDIVISION PLAT OF MONTE CIELO SUBDIVISION PHASE II**

A TRACT OF LAND CONTAINING 12.44 ACRES OF LAND, SITUATED IN HIDALGO COUNTY, TEXAS, BEING PART OR PORTION OF FARM TRACT 214, THE WEST TRACT SUBDIVISION, OUT OF THE LLANO GRANDE GRANT, HIDALGO COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED IN VOLUME 2, PAGES 34-37, MAP RECORDS, HIDALGO COUNTY, TEXAS

STATE OF TEXAS  
COUNTY OF HIDALGO

I, THE UNDERSIGNED OWNER(S) OF THE LAND SHOWN ON THIS PLAT, AND DESIGNATED HEREIN AS MONTE CIELO SUBDIVISION PHASE II TO THE CITY OF WESLACO, COUNTY OF HIDALGO COUNTY, TEXAS AND WHOSE NAME IS SUBSCRIBED HERETO, DOES (DO) HEREBY SUBDIVIDE SUCH PROPERTY AND DEDICATE TO THE USE OF THE PUBLIC ALL STREETS, ALLEYS, PARKS, WATER COURSES, DRAINS, EASEMENTS, AND PUBLIC PLACES THEREON SHOWN FOR THE PURPOSE AND CONSIDERATION THEREIN EXPRESSED.

NAME: JASON GARZA, MANAGER  
OWNER: RD MONTE CIELO, LLC.  
P.O. BOX 6105  
MCALLEN, TX. 78502

STATE OF TEXAS  
COUNTY OF HIDALGO

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DATED PERSONALLY APPEARED JASON GARZA KNOWN TO ME TO BE THE PERSON(S) WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT THEY EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN STATED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_.

NOTARY PUBLIC FOR THE STATE OF TEXAS  
MY COMMISSION EXPIRES ON: \_\_\_\_\_

STATE OF TEXAS  
COUNTY OF HIDALGO

CERTIFICATE OF PLAT APPROVAL  
UNDER LOCAL GOVERNMENT CODE 212.015(B)

WE, THE UNDERSIGNED, CERTIFY THAT THIS PLAT OF MONTE CIELO SUBDIVISION PHASE II WAS REVIEWED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF WESLACO.

MAYOR OF THE CITY OF WESLACO: ADRIAN GONZALEZ  
SECRETARY OF THE CITY OF WESLACO, NORMA A. CANTU

STATE OF TEXAS  
COUNTY OF HIDALGO

THIS PLAT OF MONTE CIELO SUBDIVISION PHASE II HAS BEEN SUBMITTED TO AND CONSIDERED BY THE PLANNING AND ZONING COMMISSION OF THE CITY OF WESLACO, TEXAS AND IS HEREBY APPROVED BY SUCH COMMISSION.

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_.

CHAIRMAN

STATE OF TEXAS  
COUNTY OF HIDALGO

I, JAVIER HINOJOSA, P.E., A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, HEREBY CERTIFY THAT PROPER ENGINEERING CONSIDERATION HAS BEEN GIVEN TO THIS PLAT.

JAVIER HINOJOSA, P.E.  
REGISTERED PROFESSIONAL ENGINEER NO. 74808

10/4/24  
DATE

STATE OF TEXAS  
COUNTY OF HIDALGO

I, CARLOS VASQUEZ, A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE UNDER MY SUPERVISION ON THE GROUND.

CARLOS VASQUEZ, R.P.L.S.  
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 4608  
C.V.O. LAND SURVEYORS L.L.C.  
517 BEAUMONT AVENUE  
MCALLEN, TEXAS 78502  
TBPELS FIRM NO.10119600  
TEL. (956) 618-1551 DATE SURVEYED: JANUARY 23, 2023

STATE OF TEXAS  
COUNTY OF HIDALGO

HIDALGO COUNTY DRAINAGE DISTRICT NO. 1 HEREBY CERTIFIES THAT THE DRAINAGE PLANS FOR THIS SUBDIVISION COMPLY WITH THE MINIMUM STANDARDS OF THE DISTRICT ADOPTED UNDER TEXAS WATER CODE 49.211(C). THE DISTRICT HAS NOT REVIEWED AND DOES NOT CERTIFY THAT THE DRAINAGE STRUCTURES DESCRIBED ARE APPROPRIATE FOR THE SPECIFIC SUBDIVISION, BASED ON GENERALLY ACCEPTED ENGINEERING CRITERIA. IT IS THE RESPONSIBILITY OF THE DEVELOPER AND HIS ENGINEER TO MAKE THESE DETERMINATIONS.

HIDALGO COUNTY DRAINAGE DISTRICT NO. 1

RAUL E. SESIN, P.E., C.F.M.  
GENERAL MANAGER

**LOT LINE - CURVE DATA**

CURVE	DELTA	RADIUS	TANGENT	ARC LENGTH	CHORD BEARING	CHORD
"C20"	05°57'00"	50.00'	2.60'	5.19'	S 58°13'55" E	5.19'
"C21"	6°32'14"	50.00'	30.86'	55.29'	S 23°34'33" E	52.52'
"C22"	5°17'45"	50.00'	27.32'	50.00'	S 36°45'13" W	47.84'
"C23"	5°17'45"	50.00'	27.32'	50.00'	N 85°57'02" W	47.84'
"C24"	26°15'57"	50.00'	11.67'	22.92'	S 44°10'11" E	22.72'
"C25"	26°15'57"	50.00'	11.67'	22.92'	S 42°05'45" W	22.72'
"C26"	5°17'45"	50.00'	27.32'	50.41'	S 84°06'39" W	48.30'
"C27"	5°17'45"	50.00'	27.32'	50.00'	N 38°21'34" W	47.84'
"C28"	6°49'32"	50.00'	33.61'	59.19'	N 24°12'05" E	55.79'

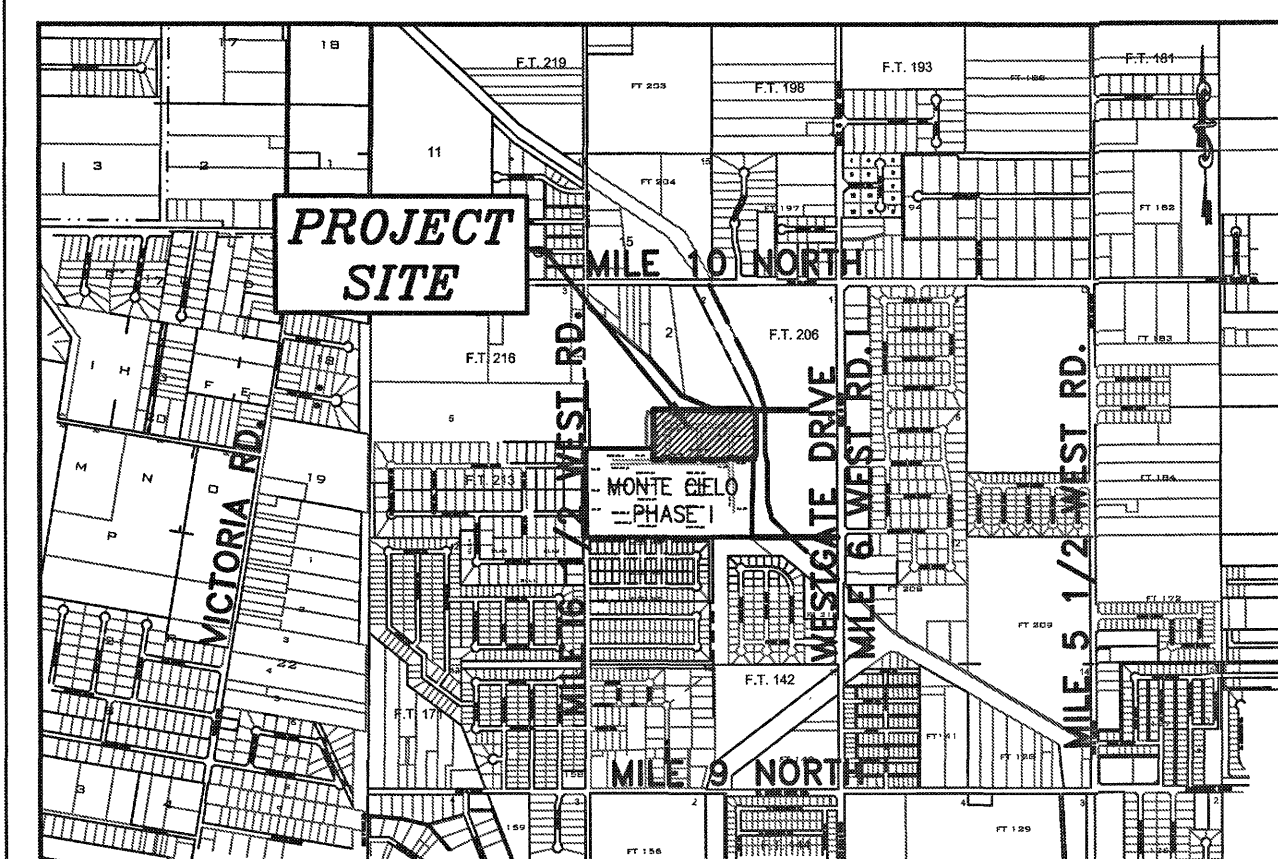
**IRREGULAR LOT AREAS**

LOT #	SQ. FT.	ACRES
164	12,128.1	0.278
165	16,766.6	0.385
166	10,718.0	0.246
167	6,851.4	0.157
179	6,851.4	0.157
179	9,600.9	0.220
180	12,466.5	0.286
181	7,326.2	0.168
182	6,005.6	0.138
187	7,098.5	0.163
188	8,304.3	0.191
193	8,333.9	0.191
194	8,276.6	0.190
199	8,305.2	0.191
200	8,238.9	0.189
205	8,268.5	0.190
206	8,221.8	0.189
207	7,131.5	0.164
208	7,162.4	0.164
209	7,193.2	0.165
210	7,224.0	0.166
211	8,439.4	0.194

**LINE DATA**

LINE	CHORD BEARING	CHORD
"L18"	N 43°52'41" E	21.18'
"L19"	S 46°07'19" E	21.24'
"L20"	S 46°27'41" E	21.37'

**LEGEND:**  
● IRON ROD FOUND  
○ IRON ROD SET  
P.O.B. = POINT OF BEGINNING  
P.O.C. = POINT OF COMMENCEMENT  
R.O.W. = RIGHT OF WAY  
H.C.M.R. = HIDALGO COUNTY MAP RECORDS  
H.C.C.R. = HIDALGO COUNTY DEED RECORDS  
H.C.C.I.D.# = HIDALGO AND CAMERON COUNTIES IRRIGATION DISTRICT NO. 9  
D.E. = DRAINAGE EASEMENT  
U.E. = UTILITY EASEMENT



THIS PLAT IS APPROVED BY HIDALGO AND CAMERON COUNTIES IRRIGATION DISTRICT NO. 9 DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_.

- NO IMPROVEMENTS OF ANY KIND SHALL BE PLACED UPON HIDALGO AND CAMERON COUNTIES IRRIGATION DISTRICT NO. 9 RIGHT-OF-WAYS AND/OR EASEMENTS WITHOUT THE EXPRESSED WRITTEN PERMISSION OF HCCID #9.
- IT IS UNDERSTOOD THAT THE RATE OF FLOW OF STORM WATER FOR THE DEVELOPMENT WILL BE NO GREATER THAN THE RATE OF FLOW OF STORM WATER WHEN THE LAND WAS IN AGRICULTURAL USE.
- HCCID #9 WILL NOT BE RESPONSIBLE FOR STORM/DRAINAGE WATER SYSTEM TO ANY LOT WITHIN THIS SUBDIVISION, AS WELL AS HCCID #9 WILL NOT BE RESPONSIBLE FOR THE DELIVERY OF WATER TO ANY LOT WITHIN THIS SUBDIVISION, IF DESIRED, THIS WILL NOT BE AT THE DISTRICTS EXPENSE.
- HCCID #9 HAS NOT REVIEWED AND DOES NOT CERTIFY THAT THE STORM SEWER OR UTILITIES SYSTEMS DESCRIBED ARE SUBSTANTIALLY COMPLETE FOR THE PARTICULAR SUBDIVISION, BASED ON GENERALLY ACCEPTED ENGINEERING CRITERIA. THE DEVELOPER AND HIS ENGINEER ARE RESPONSIBLE FOR THEIR DETERMINATIONS.
- HCCID#9 EXCLUSIVE EASEMENTS SHALL BE KEPT CLEAR OF BUILDINGS, SHEDS, FENCES, SHRUBS, TREES AND OTHER PLANTING AND OTHER OBSTRUCTIONS THAT WOULD INTERFERE WITH THE OPERATIONS AND MAINTENANCE OF THE EASEMENT.

**NORTH ALAMO WATER SUPPLY CORPORATION RIGHT OF WAY EASEMENT**

KNOWN ALL MEN BY THESE PRESENTS: THAT THE UNDERSIGNED, OWNER OF THE PROPERTY SHOWN ON THE PLAT, THEIR SUCCESSORS, ASSIGNS, AND TRANSFEREES (HEREIN CALLED "GRANTOR" WHETHER ONE OR MORE PERSONS ARE NAMED), IN CONSIDERATION OF ONE DOLLAR (\$1.00) AND OTHER GOOD AND VALUABLE CONSIDERATION PAID BY NORTH ALAMO WATER SUPPLY CORPORATION, (HEREIN CALLED "GRANTEE") THE RECEIPT AND SUFFICIENCY OF WHICH IS HEREBY ACKNOWLEDGED, DOES HEREBY GRANT, BARGAIN, SELL, TRANSFER AND CONVEY TO SAID GRANTEE, ITS SUCCESSORS, AND ASSIGNS AN EXCLUSIVE PERPETUAL EASEMENT WITH THE RIGHT TO ERECT, CONSTRUCT, INSTALL AND THEREAFTER USE, OPERATE, INSPECT, MAINTAIN, REPLACE AND REMOVE WATER DISTRIBUTION LINES AND APPURTENANCES OVER AND ACROSS LANDS SHOWN ON THIS PLAT, TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS OVER GRANTOR'S ADJACENT LANDS OF THE PURPOSE FOR WHICH THE ABOVE MENTIONED RIGHTS ARE GRANTED. THE EASEMENT HEREBY GRANTED SHALL NOT EXCEED 15' IN WIDTH, AND GRANTEE IS HEREBY AUTHORIZED TO DESIGNATE THE COURSE OF THE EASEMENT HERIN CONVEYED EXCEPT THAT WHEN THE PIPELINE(S) IS INSTALLED, THE EASEMENT HERIN GRANTED SHALL BE LIMITED TO A STRIP OF LAND 15' IN WIDTH, THE CENTERLINE THEREOF BEING THE PIPELINE INSTALLED.

IN THE EVENT THE EASEMENT HEREBY GRANTED ABUTS ON A PUBLIC ROAD AND THE CITY, COUNTY OR STATE HEREAFTER WIDENS OR RELOCATES THE PUBLIC ROAD SO AS TO REQUIRE THE RELOCATION OF THIS WATERLINE AS INSTALLED, GRANTEE FURTHER GRANTS TO GRANTEE AN ADDITIONAL EASEMENT OVER AND ACROSS THE LAND SHOWN ON THIS PLAT FOR THE PURPOSE OF LATERALLY RELOCATE SAID WATER LINE AS MAY BE NECESSARY TO CLEAR THE ROAD IMPROVEMENTS, WHICH EASEMENT HEREBY GRANTED SHALL BE LIMITED TO A STRIP OF LAND 15' IN WIDTH, THE CENTER LINE THEREOF BEING THE PIPELINE AS RELOCATED.

THE CONSIDERATION RECITED HEREIN SHALL CONSTITUTE PAYMENT IN FULL FOR ALL DAMAGES SUSTAINED BY GRANTEE BY REASON OF THE INSTALLATION, MAINTENANCE, REPAIR, REPLACEMENT AND RELOCATION OF THE STRUCTURES REFERRED TO HEREIN, THIS AGREEMENT TOGETHER WITH OTHER PROVISIONS OF THIS GRANT SHALL CONSTITUTE AN EASEMENT FOR THE BENEFIT OF THE GRANTEE, ITS SUCCESSORS AND ASSIGNS. THE GRANTEE COVENANTS THAT IT IS THE OWNER OF THE ABOVE-DESCRIBED LANDS AND THAT SAID LANDS ARE FREE AND CLEAR OF ALL ENCUMBRANCES AND LIENS EXCEPT THE FOLLOWING:

THE EASEMENT CONVEYED HEREIN WAS OBTAINED OR IMPROVED THROUGH FEDERAL FINANCIAL ASSISTANCE. THIS EASEMENT IS SUBJECT TO THE PROVISIONS OF TITLE VI OF THE CIVIL RIGHTS ACT OF 1964 AND THE REGULATIONS ISSUED PURSUANT THERETO FOR SO LONG AS THE EASEMENT CONTINUES TO BE USED FOR THE SAME OR SIMILAR PURPOSE FOR WHICH FINANCIAL ASSISTANCE WAS EXTENDED OR FOR SO LONG AS THE GRANTEE OWNS IT, WHICHEVER IS LONGER.

IN WITNESS WHEREOF, THE SAID GRANTEE HAS EXECUTED THIS EASEMENT THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_.

GENERAL MANAGER  
HIDALGO & CAMERON COUNTIES IRRIGATION DISTRICT NO. 9

PRINTED NAME: JASON GARZA, MANAGER

FILE FOR RECORD IN HIDALGO COUNTY ARTURO GUAJARDO, JR. HIDALGO COUNTY CLERK

ON: \_\_\_\_\_ AT \_\_\_\_\_ AM/PM  
INSTRUMENT NUMBER \_\_\_\_\_  
OF THE MAP RECORDS OF HIDALGO COUNTY, TEXAS  
BY: \_\_\_\_\_ DEPUTY

DATE OF PREPARATION: OCT. 3, 2024  
DRAWN BY: G.T. & A.G.

**JAVIER HINOJOSA ENGINEERING CONSULTING ENGINEERS**  
416 E. DOVE AVENUE MCALLEN, TEXAS 78504  
PHONE (956) 668-1588  
javier@javierhinojosaeeng.com  
TBPELS FIRM NUMBER F-1295

**PRINCIPAL CONTACTS:**

NAME	ADDRESS	CITY & ZIP	PHONE #
OWNER: JASON E. GARZA	P.O. BOX 6105	MCALLEN, TX 78502	(956) 451-6390
ENGINEER: JAVIER HINOJOSA	416 E. DOVE AVENUE	MCALLEN, TX 78504	(956) 668-1588
SURVEYOR: CARLOS VASQUEZ	517 BEAUMONT AVE.	MCALLEN, TX 78501	(956) 618-1551

**GENERAL NOTES:**

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UNDERGROUND UTILITIES. WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS, SUFFICIENTLY IN ADVANCE OF OPERATIONS TO PRECLUDE DAMAGE TO SAME. THE CONTRACTOR SHALL CONTACT AS NECESSARY BUT NOT LIMITED TO:  
 A.E.P. (877) 373-4858  
 AT&T (800) 924-9420  
 SPECTRUM CABLE (855) 707-7328  
 CITY OF WESLACO (956) 968-3181  
 TEXAS GAS COMPANY (800) 700-2443  
 DIG TESS 811 or (800) 344-8377
- CONTRACTOR TO SAW CUT EXISTING ASPHALT PAVEMENT ALONG EDGES OF PROPOSED AGENCY SERVICING THE FACILITY.
- IN THE EVENT OF DAMAGE TO UNDERGROUND FACILITIES, WHETHER SHOWN OR NOT SHOWN IN THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO PLACE THE FACILITIES BACK IN SERVICE AT NO INCREASE IN THE CONTRACTOR'S PRICE AND ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR
- THE CONTRACTOR SHALL EXERCISE EXTRA CARE TO PREVENT DAMAGE TO ALL OTHER STRUCTURES IN THE AREA INCLUDING BUILDINGS, FENCES, ROADS, PIPELINES, UTILITIES, ETC., WHETHER PUBLICLY OR PRIVATELY OWNED.
- UNTIL ACCEPTANCE BY THE ENGINEER OF ANY PART OR ALL OF THE CONSTRUCTION, AS PROVIDED FOR IN THE PLANS AND THESE SPECIFICATIONS, IT SHALL BE UNDER THE CHARGE AND CARE OF THE CONTRACTOR, AND HE SHALL TAKE EVERY NECESSARY PRECAUTION AGAINST INJURY OR DAMAGE TO ANY PART OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD, AT HIS OWN EXPENSE, ALL INJURIES OR DAMAGE TO ANY PORTION OF THE WORK BEFORE ITS COMPLETION AND ACCEPTANCE.
- ALL EXISTING UTILITIES SHOWN WITHIN THE SITE AREA AS PER CITY OF WESLACO THE LOCATIONS OF THE UNDERGROUND LINES ARE APPROXIMATE. THE SPOTTING OF THESE LINES SHALL BE COORDINATED WITH THE DISTRICT'S MAINTENANCE AND OPERATIONS DEPARTMENT FOR FIELD VERIFICATION.
- CONTRACTOR TO COORDINATE ALL WORK WITH THE, CITY OF WESLACO ENGINEERING DEPARTMENT (956-447-3403) PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL VERIFY EXISTING BENCH MARKS TO INSURE ACCURACY. CONTRACTOR SHALL NOTIFY ENGINEER IF CONFLICT APPEARS WITHIN BENCH MARKS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THIS PROJECT FROM THE CITY OF WESLACO, TEXAS GAS COMPANY, AT&T, AND HIDALGO AND CAMERON COUNTY IRRIGATION DISTRICT No. 9.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AT NO ADDITIONAL COST TO THE OWNER ALL COSTS ASSOCIATED WITH ANY PROTECTION MEASURES THAT WILL BE REQUIRED BY THE CONSTRUCTION/DEMOLITION ACTIVITIES TO SAFEGUARD THE HEALTH, SAFETY AND WELFARE OF THE PUBLIC.
- NO OPEN TRENCHES OR EXCAVATION SHALL BE LEFT OPEN OVERNIGHT.
- CONTRACTOR TO PROVIDE PROPER TRAFFIC CONTROL DURING THE CONSTRUCTION APPROVED BY THE CITY OF WESLACO END ENGINEERING TO INSURE THE SAFETY OF THE PUBLIC.
- CONTRACTOR TO PROVIDE ANY AND ALL TEMPORARY GRAPHIC CONSTRUCTION SIGNS, DIRECTIONAL SIGNS AND ANY OTHER SIGNS THAT MAY BE REQUIRED DURING CONSTRUCTION.
- ALL STORM MANHOLES TOPS TO HAVE THE CITY OF WESLACO LOGO.
- ALL DRIVEWAYS AND SIDEWALKS TO BE RECONSTRUCTED WITH EXISTING LIKE MATERIALS TO BE MINIMUM OF THE FOLLOWING:  
 ASPHALT DRIVEWAYS : 8" FLEX BASE AND 2" H.M.A.C. (98% COMPACTION)  
 CONCRETE DRIVEWAYS : 6" REINFORCED CONCRETE (4,000 P.S.I.)  
 CALICHE DRIVES : 8" FLEX BASE (98% COMPACTION)  
 CULVERTS : 18" R.C.P.
- ALL EXISTING PAVEMENT THAT IS DAMAGED TO BE REPLACED WITH 8" FLEX AND 2" H.M.A.C. AND ALL EDGES TO BE SAW CUT.
- PROPER SEDIMENT CONTROL DEVICES SHALL BE UTILIZED DURING CONSTRUCTION ON ALL DRAINAGE STRUCTURES. ALL GRATE INLETS SHALL HAVE FILTER FABRIC INLET PROTECTION TO PREVENT SOIL EROSION INTO THE DRAINAGE SYSTEM.
- CONTRACTOR TO PROVIDE ANY AND ALL TEMPORARY GRAPHIC CONSTRUCTION SIGNS DIRECTIONAL SIGNS AND ANY OTHER SIGNS THAT MAY BE REQUIRED DURING CONSTRUCTION.
- ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF CITY OF WESLACO, TXDOT AND HIDALGO AND CAMERON COUNTY IRRIGATION DISTRICT No. 9.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL DIG TESS 48 HOURS PRIOR TO COMMENCEMENT OF WORK FOR UTILITY SPOTTING @ (1-800-344-8377).
- LOCATIONS OF UNDERGROUND FACILITIES ARE FROM BEST INFORMATION AVAILABLE. NEITHER THE OWNER OR ENGINEER, WARRANT THE ACCURACY OF THE INFORMATION PROVIDED. ANY DEVIATIONS SHALL BE CALLED TO THE ENGINEER'S ATTENTION IMMEDIATELY.
- THE CONTRACTOR SHALL REMOVE ALL FENCES LOCATED WITHIN THE EASEMENTS AND RIGHT OF WAY. INTERFERING WITH CONSTRUCTION OPERATION AND PROVIDE TEMPORARY FENCING DURING CONSTRUCTION. REMOVED FENCES SHALL BE REPLACED WITH A NEW FENCE OR UNDAMAGED ORIGINAL FENCING. REMOVAL AND REPLACEMENT OF EXISTING AND TEMPORARY FENCES SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST AND REFLECTED IN THE UNIT BID PRICES FOR VARIOUS ITEMS LISTED IN THE PROPOSAL.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO EXISTING RESIDENCES AT ALL TIMES.
- ANY DAMAGES TO FENCES, WALKS, OR PRIVATE PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE
- NO OPEN EXCAVATION SHALL BE LEFT OPEN OVERNIGHT. ALL EXCAVATIONS WHICH CANNOT BE BACKFILLED OVERNIGHT SHALL BE COVERED. AS A MINIMUM, WITH STEEL PLATING WHEN IN PAVED AND UNPAVED AREAS SUBJECT TO VEHICULAR LOADING; PLYWOOD, WOOD PLANKING WITH O.S.H.A. ORANGE PLASTIC EXPANDED MESH BARRIER AROUND PERIMETER IN UNPAVED AREAS NOT SUBJECT TO VEHICULAR LOADING, OR AS APPROVED BY THE ENGINEER.
- THE PREPARATION OF THESE PLANS REFLECTS INFORMATION, PROVIDED BY OTHERS, ON THE APPROXIMATE LOCATION AND EXISTENCE OF EXISTING UTILITY AND ADJACENT PHYSICAL FEATURES. HOWEVER, THEY DO NOT IMPLY OR AFFIRM THAT ALL UTILITIES OR PHYSICAL FEATURES ARE SHOWN. GENERALLY, UTILITY SERVICE CONNECTIONS ARE NOT INDICATED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATIONS OF THE OWNER IMMEDIATELY UPON ENCOUNTERING UNFORESEEN CONFLICTS.

**GENERAL NOTES (CONT):**

- THE APPROXIMATE LOCATIONS OF KNOWN EXISTING UTILITIES ARE SHOWN, CONTRACTOR SHALL DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATIONS IN THE FIELD PRIOR TO COMMENCING WORK. CONTRACTOR TO BE FULLY RESPONSIBLE FOR DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES.
- PUBLIC AND PRIVATE UTILITY LINES AND CUSTOMER SERVICE LINES MAY EXIST THAT ARE NOT SHOWN ON THE CONSTRUCTION DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, MAINTAIN AND PROTECT THE INTEGRITY OF THESE LINES. HAND EXCAVATION MAY BE REQUIRED. THE CONTRACTOR SHALL RESTORE, RELOCATED OR DIVERTED UTILITY TO ITS ORIGINAL CONDITION AND LOCATION WHEN APPLICABLE UPON COMPLETION OF CONSTRUCTION. SAID RESTORATION SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST AND REFLECTED IN THE UNIT BID PRICES FOR VARIOUS ITEMS LISTED IN THE PROPOSAL.
- THE CONTRACTOR SHALL ADJUST AND CONNECT TO NEW SYSTEM EXISTING FIELD DRAIN LINES AT PROPOSED LOCATIONS. SAID WORK SHALL BE COORDINATED WITH H.C.C.I.D. No. 9 PRIOR TO COMMENCEMENT OF WORK. SAID LINE ADJUSTMENTS AND CONNECTIONS SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST AND REFLECTED IN THE UNIT BID PRICES FOR VARIOUS ITEMS LISTED IN THE PROPOSAL.
- THE CONTRACTOR TO MAINTAIN ALL EQUIPMENT AND TRANSPORTATION OF SAID EQUIPMENT WITHIN THE EXISTING RIGHTS-OF-WAY OF THE CITY, COUNTY, OR STATE.
- DURING EXCAVATION OPERATIONS FOR DRAINAGE AND/OR UTILITIES, THE CONTRACTOR SHALL NOT PILE EXCAVATED MATERIAL OR EXCAVATE WITHIN THE DRIP LINE OF TREES THAT ARE TO BE PRESERVED.
- WHERE NEW WATER LINES ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN NINE FEET (I.E., WATER LINES CROSSING WASTEWATER LINES, WATER LINES PARALLELING WASTEWATER LINES, OR WATER LINES NEXT TO MANHOLES) THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC 317 (DESIGN OF SEWAGE SYSTEMS) OR 30 TAC 290 (WATER HYGIENE).
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER CONNECTIONS TO ALL HOMES AND BUSINESSES IN WORKING ORDER AT ALL TIMES, EXCEPT FOR BRIEF INTERRUPTIONS IN SERVICE FOR CONNECTIONS TO BE REINSTALLED. IN NO CASE SHALL SERVICES BE ALLOWED TO REMAIN OUT OF SERVICE OVERNIGHT. CONTRACTOR IS RESPONSIBLE FOR DAMAGES TO SAID SERVICES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF PROPOSED FACILITIES AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING AREA BETWEEN THE BACK OF CURB/EDGE OF PAVEMENT, ROAD SIDE DITCH AND RIGHT-OF-WAY TO HAVE POSITIVE FLOW TO THE PROPOSED DRAINAGE SYSTEM.
- THE CONTRACTOR SHALL PROVIDE/MAINTAIN ADEQUATE POSITIVE DRAINAGE AT ALL TIMES DURING THE INSTALLATION OF THE STRUCTURES, DRAINAGE, UTILITY, IRRIGATION AND ROAD IMPROVEMENTS. DEWATERING OF THE TRENCH MAY BE REQUIRED DURING THE INSTALLATION OF THE DRAINAGE, UTILITY AND IRRIGATION FACILITIES/STRUCTURES. SAID DEWATERING SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST AND REFLECTED IN THE UNIT BID PRICES FOR VARIOUS ITEMS LISTED IN THE PROPOSAL.
- THE CONTRACTOR SHALL CLEANUP AND RESTORE THE AREA OF OPERATIONS TO A CONDITION AS GOOD AS OR BETTER THAN THAT WHICH EXISTED PRIOR TO INSTALLATION OF ALL ITEMS TO BE CONSTRUCTED.
- ALL DEBRIS, VEGETATION AND SURPLUS MATERIAL, RESULTING FROM DEMOLITION AND/OR CLEARING OF THE RIGHT-OF-WAY IN PREPARATION OF PROPOSED IMPROVEMENTS SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF AT A SITE ACCEPTABLE TO THE CITY OF WESLACO. THE CONTRACTOR SHALL PROVIDE A LETTER STATING SO. THIS SHALL BE INCIDENTAL AND NOT A SEPARATE PAY ITEM UNLESS STATED SO. NO EXCESS EXCAVATED MATERIAL SHALL BE DEPOSITED IN LOW AREAS. IF THE CONTRACTOR PLACES EXCESS MATERIAL IN THE AREAS WITHOUT WRITTEN PERMISSION, HE WILL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL AND CONTRACTOR SHALL REMOVE THE MATERIAL AT OWN COST.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION AND SUBMITTAL OF THE TRENCH EXCAVATION PROTECTION PLAN. CONTRACTOR SHALL SUBMIT CONSTRUCTION DETAILS AND DESIGN CALCULATIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS BEFORE CONSTRUCTING THE SHORING AND/OR UTILIZING A TRENCH PROTECTION SYSTEM (BOX). THE ENGINEER RESERVES THE RIGHT TO REJECT DESIGNS NOT MEETING THE REQUIREMENTS OF SECTION ITEM 402 AND 403.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO FOLLOW ALL T.C.E.Q. STORM WATER POLLUTION PREVENTION PLAN (SWP3) REQUIREMENTS AS PER SWP3 SHEETS AND AS STATED IN TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM CONSTRUCTION GENERAL PERMIT (TPDES TXR150000, EFFECTIVE DATE MAY 5, 2019), INCLUDING N.O.I. SUBMITTAL AND M54 NOTIFICATION.
- THE CONTRACTOR SHALL ABANDON AND CAP ANY PORTION OF PIPE LINE (STORM, IRRIGATION, ETC.) FOUND WITHIN THE PROPOSED PIPE TRENCH, AT THE ENGINEERS REQUEST. ONCE APPROVED BY THE ENGINEER, THE PIPE TO BE ABANDONED SHALL BE CAPPED AND SEALED WITH CEMENT AT BOTH ENDS OF THE TRENCH. THIS SHALL BE CONSIDERED SUBSIDIARY UNLESS OTHERWISE STATED.
- ALL ROAD CROSSINGS SHALL BE REPLACED WITH A MINIMUM OF 8" (98% COMPACTED) CALICHE AND 2" H.M.A.C. OR LIKE SECTION, WHICHEVER IS GREATER.
- THE ENGINEER WILL PROVIDE CONTROL POINTS (BENCHMARK AND PROPERTY CORNERS) FOR THE WORK TO BE PERFORMED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING, INCLUDING BUT NOT LIMITED TO HORIZONTAL & VERTICAL GRADE CUTS FOR CURB & GUTTER, ROADWAY, STORM DRAIN PIPE, ROADSIDE DITCHES, DRIVEWAY CULVERTS AND DITCH WORK.
- THE CONTRACTOR SHALL CONNECT ANY PROPOSED IRRIGATION LINE WITH EXISTING IRRIGATION PIPE IN ACCORDANCE WITH UNITED IRRIGATION DISTRICT SPECIFICATIONS. SUPPORT COLLARS MAY BE USED. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGE TO THE EXIST. LINE CAUSED BY THIS WORK. ELBOWS AND MISC. FITTINGS SHALL ALSO BE USE TO ACHIEVE A 1.0 FT SEPARATION BETWEEN TOP OF PROP. DRAIN LINE AND BOTTOM OF THE IRRIGATION LINE.
- ELBOW FOR ROP OR HPP BEING PROPOSED AT THE END OF LINES SHALL BE PRE-FABRICATED AND SECURED TO THE PIPE WITH A CONCRETE COLLAR (TYPICAL ON ALL PIPE ELBOW INSTALLATIONS.) ELBOW SHALL BE REQUIRED AT ALL LOCATIONS SHOWN ON THE PLANS. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST AND REFLECTED IN THE UNIT BID PRICES FOR VARIOUS ITEMS LISTED IN THE PROPOSAL. PRE-FABRICATED ELBOWS SHALL BE FIELD CONFIRMED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL RELOCATE OR RECONSTRUCT ALL MAIL BOXES TO BE 1' BEHIND BACK OF CURB OR 3' BEHIND EDGE OF PAVEMENT. MAIL BOXES SHALL BE REPLACED TO THE SAME EXISTING CONDITIONS OR BETTER. SAID RELOCATION AND/OR RECONSTRUCTION OF MAIL BOXES SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST AND REFLECTED IN THE UNIT BID PRICES FOR VARIOUS ITEMS LISTED IN THE PROPOSAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL EXISTING WATER VALVES AND MANHOLES TO MATCH PROPOSED FINISH GRADE OF ROADWAY. CONCRETE COLLARS SHALL BE INSTALLED TO MATCH TOPS WITH PAVEMENT GRADE. THIS WORK SHALL BE INCIDENTAL AND NOT A SEPARATE PAY ITEM UNLESS STATED OTHERWISE.

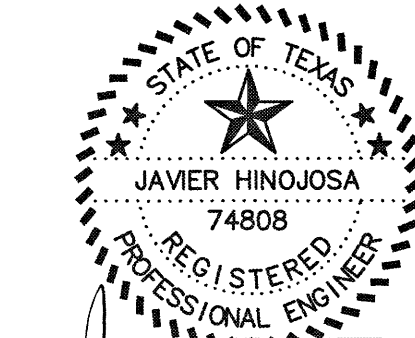
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT/RELOCATION OF ALL REGULATORY SIGNS REMOVED DUE TO CONSTRUCTION OPERATIONS WITH THE SAME SIGN ON FIXED SUPPORT(S) IMMEDIATELY UPON ITS REMOVAL. APPROVAL BY THE ENGINEER IS NECESSARY BEFORE REMOVING ANY REGULATORY ROADWAY SIGN(S). FLAGGERS ARE REQUIRED TO BE AVAILABLE TO DIRECT TRAFFIC DURING SIGN INTERMEDIATE DOWN TIME. RELOCATION OF ANY DIRECTIONAL SIGN ASSEMBLIES REMOVED DURING CONSTRUCTION OPERATIONS IMMEDIATELY UPON THEIR REMOVAL IS REQUIRED. THESE SIGNS SHALL BE RELOCATED TO A LOCATION IN ACCORDANCE WITH THE LATEST VERSION OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". IN NO CASE WILL A SIGN BE REMOVED WITHOUT A REPLACEMENT SIGN AND SUPPORT(S) BEING READILY AVAILABLE AND A LOCATION ESTABLISHED. REMOVAL AND RELOCATION OF THESE SIGNS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST REFLECTED IN THE UNIT BID PRICES FOR VARIOUS ITEMS LISTED ON THE PROPOSAL.
- ALL CONSTRUCTION OPERATIONS SHALL BE CONDUCTED TO PROVIDE THE LEAST POSSIBLE INTERFERENCE TO TRAFFIC AS PROVIDED FOR IN THE SPECIFICATIONS, TXDOT STANDARDS, TEXAS M.U.T.C.D. AND/OR AS DIRECTED. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CURRENT EDITION OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

**EROSION CONTROL NOTES**

- THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIRE EROSION AND SEDIMENTATION CONTROL FOR CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL REQUIRED EROSION AND SEDIMENTATION CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN.
- AT A MINIMUM THESE CONTROLS SHALL CONSIST OF ROCK BERMS AND/OR SILT FENCES CONSTRUCTED PARALLEL TO AND DOWN GRADIENT FROM THE TRENCHES. THE ROCK BERM OR SILT FENCES SHALL BE INSTALLED IN A MANNER SUCH THAT ANY RAINFALL RUNOFF SHALL BE FILTERED. HAY BALES SHALL NOT BE USED FOR TEMPORARY EROSION AND SEDIMENTATION CONTROLS.
- ALL SLOPES SHALL BE SODED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.
- THE CONTRACTOR SHALL INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY SIGNIFICANT RAINFALL TO INSURE DISTURBANCE TO THE STRUCTURES HAS NOT OCCURRED. SEDIMENT DEPOSITED AFTER A RAINFALL SHALL BE REMOVED FROM THE SITE OR PLACED IN AN APPROVED DESIGNATED SOIL DISPOSAL AREA.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADINGS OF DOWNSTREAM FACILITIES. SUCH INSTALLATIONS SHALL BE REGULARLY INSPECTED BY THE CONTRACTOR FOR EFFECTIVENESS. ADDITIONAL MEASURES MAY BE REQUIRED IF, IN THE OPINION OF THE OWNER, THEY ARE WARRANTED.
- ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE IMPLEMENTED BEFORE CONSTRUCTION COMMENCES, SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL BE REMOVED WHEN VEGETATION IS ESTABLISHED AND THE CONSTRUCTION AREA IS STABILIZED. ADDITIONAL PROTECTION MAY BE NECESSARY IF EXCESSIVE SOLIDS ARE BEING DISCHARGED FROM THE SITE.
- ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED BY THE CONTRACTOR AT FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER.
- ALL STAGING, MATERIAL STORAGE, STOCKPILE AND REFUSE AREAS SHALL REQUIRE APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES.
- ALL CONSTRUCTION DEBRIS SHALL BE CONTAINED WITHIN APPROPRIATE RECEPTACLES (ROLL-OFF CONTAINERS, DUMPSTERS, TRASH CANS, WIRE-MESH CAGES, ETC.) AND CONFINED WITHIN PERIMETER EROSION AND SEDIMENT CONTROLS.
- THE CONTRACTOR MAY REFER TO THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES (2004 EDITION) ITEM 164, "SEEDING FOR EROSION CONTROL" AND ITEM 168, "VEGETATIVE WATERING" FOR VEGETATIVE STABILIZATION SPECIFICATIONS.
- DUST CONTROL SHALL BE IMPLEMENTED AS NECESSARY OR AS DIRECTED BY THE ENGINEER. DUST CONTROL MAY CONSIST OF WATERING OR OTHER METHODS APPROVED BY THE PROJECT ENGINEER.
- ALL DISCHARGES ASSOCIATED WITH DEWATERING OPERATIONS SHALL IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES. MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO SEDIMENTATION BASINS OR FILTER SOCKS.
- CONCRETE WASH-WATER SHALL NOT BE DISCHARGED DIRECTLY INTO A STORM SEWER SYSTEM OR RECEIVING STREAM. ALL WASH ACTIVITIES MUST BE PERFORMED WITHIN THE EXTENTS OF ESTABLISHED EROSION AND SEDIMENT CONTROL MEASURES OR DESIGNATED AREAS APPROVED BY PROJECT ENGINEER.
- SEDIMENT SHALL BE CLEARED FROM ALL STORM SEWER PIPES, CULVERTS AND APPURTENANCES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO FINAL PROJECT ACCEPTANCE. SEDIMENT SHALL BE PROPERLY DISPOSED.

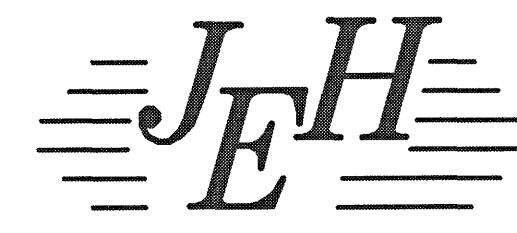
**TRENCH SAFETY**

- IN ACCORDANCE WITH HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE (70TH REGULAR LEGISLATIVE SESSION), THE CONTRACTOR SHALL MEET THE REQUIREMENTS FOR TRENCH SAFETY AS OUTLINED IN THE CURRENT VERSION OF THE UNITED STATES DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS, 29 CFR, PART 1926, SUBPART P- EXCAVATIONS.
- PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY PLAN. ALL PLANS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS. THE PLAN SHALL BE SUBMITTED TO THE PROJECT ENGINEER.
- IN THE EVENT CONDITIONS ENCOUNTERED IN THE FIELD REQUIRE TRENCH SAFETY SYSTEMS OUTSIDE OF THE EXTENTS SUGGESTED TRENCH PROTECTION SHOWN ON THE CONSTRUCTION PLANS, ALL EXCAVATION SHALL CEASE AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A REVISED TRENCH SAFETY PLAN. NO EXCAVATION SHALL RESUME UNTIL THE REVISED TRENCH SAFETY PLAN HAS BEEN APPROVED.
- THE CONTRACTOR SHALL ENSURE APPROVED TRENCH SAFETY PLANS ARE IMPLEMENTED. FAILURE TO ADHERE TO THE TRENCH SAFETY PLAN WILL RESULT IN A STOP WORK ORDER. NONCOMPLIANCE INCIDENTS MAY BE REPORTED TO OSHA.
- TRENCHES OR EXCAVATIONS MAY NOT BE LEFT OPEN OVERNIGHT UNLESS AUTHORIZED IN WRITING BY THE PROJECT ENGINEER. IN CASES WHERE TRENCHES ARE LEFT OPEN, THE CONTRACTOR MUST PROVIDE TRAFFIC RATED, ANCHORED STEEL PLATE COVERS APPROVED BY THE ENGINEER.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JAVIER HINOJOSA P.E. # 74808 ON OCTOBER 4, 2024

REVISIONS	
	230301A
	PROJECT No. OCT. 3, 2024
	DATE: G.T. & A.G.
	DRAWN BY J.H.
	CHK. BY



**JAVIER HINOJOSA ENGINEERING**  
 CONSULTING ENGINEERS  
 416 E. DOVE AVENUE McALLEN, TEXAS 78504  
 PHONE (956) 668-1588  
 TBPELS FIRM No. 1295  
 javier@javierhinojosaeng.com

GENERAL NOTES  
**MONTE CIELO SUBDIVISION PHASE II**  
 WESLACO, TEXAS

SHEET  
**1**  
 OF 12 SHEETS

**EROSION GENERAL NOTES:**

- IT IS THE INTENT OF THE INFORMATION PROVIDED ON THIS SHEET AND WITHIN THE SPECIFICATIONS TO BE USED AS THE GENERAL GUIDELINES OF THE STORM WATER OF COMPLIANCE WITH FEDERAL REGULATIONS. THE CONTRACTOR SHALL PREPARE THE STORM WATER POLLUTION PREVENTION PLAN AND BE SOLELY RESPONSIBLE FOR ITS IMPLEMENTATION. THE STORM WATER POLLUTION PREVENTION PLAN SHALL MEET THE REQUIREMENTS SET FORTH BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TPDES) GENERAL PERMIT NO. TXR15000 TO DISCHARGE WASTE FROM CONSTRUCTION SITES ISSUED AND EFFECTIVE MARCH 5, 2023.
- THE STORM WATER POLLUTION PLAN SHOULD ADDRESS THREE GOALS: A) DIVERSION OF UPSLOPE WATER AROUND DISTURBED AREAS OF THE SITE; B) LIMITS THE EXPOSURE OF DISTURBED AREAS TO THE SHORTEST DURATION POSSIBLE; AND C) REMOVAL OF SEDIMENT FROM STORM WATER BEFORE IT LEAVES THE SITE.
- THE CONTRACTOR SHALL MAKE THE STORM WATER POLLUTION PREVENTION PLAN AVAILABLE, UPON REQUEST, TO (EPA).
- THE CONTRACTOR MUST AMEND PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PLAN, OR WHEN THE EFFECTIVE PLAN PROVES INEFFECTIVE. MODIFICATIONS INCLUDING DESIGN AND ALL ADDITIONAL MATERIALS AND WORK SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE BY THE OWNER.
- STABILIZATION MEASURES ARE TO BE INSPECTED AT A MINIMUM OF ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES. REPAIRS AND INADEQUACIES REVEALED BY THE INSPECTION MUST BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
- AN INSPECTION REPORT THAT SUMMARIZES INSPECTION ACTIVITIES AND IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE RETAINED AND MADE PART OF THE PLAN.
- ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST CERTIFY AS TO AN UNDERSTANDING OF THE TPDES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE POLLUTION PREVENTION PLAN.
- THE CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF OILS, GREASE, PAINTS, GASOLINE, AND OTHER POLLUTANTS TO STORM WATER. APPROPRIATE PRACTICES CAN INCLUDE: DESIGNATING AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR; REGULAR COLLECTION OF WASTE; CONVENIENTLY LOCATED WASTE RECEPTACLES; AND DESIGNATING AND CONTROLLING EQUIPMENT WASHDOWN.
- THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED BY CONSTRUCTION MEANS, METHODS AND SEQUENCE. MODIFICATIONS SHALL NOT COMPROMISE THE INTENT OF REQUIREMENTS OF LAW AND THIS PLAN. MODIFICATIONS SHALL NOT BE BASIS FOR ADDITIONAL COST TO THE OWNER.
- AREAS OF CONSTRUCTION ELSEWHERE ON THE JOB SITE SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS.
- BORROW AREAS, IF EXCAVATED, SHALL BE PROTECTED AND STABILIZED UTILIZING THE PLAN DETAILS. ALL WORK SHALL CONFORM TO GOVERNMENTAL REQUIREMENTS AND BECOME PART OF THE STORM WATER POLLUTION PREVENTION PLAN (SWP3). THE WORK SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL NON-PAVED AREAS SHALL BE MULCHED AND SEEDED WITH EROSION PROTECTION IMMEDIATELY UPON COMPLETION OF FINAL GRADING. THIS INCLUDES ALL DITCHED AND EMBANKMENTS. THE CONTRACTOR SHALL MAINTAIN FINAL GRADING AND KEEP SEEDED AREAS WATERED UNTIL FULLY ESTABLISHED AND ACCEPTED BY THE OWNER.
- THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL TRAFFIC EXIT POINTS PRIOR TO EXITING ONTO ANY PAVED ROADWAY.

**NOTES:**

- STONE SHALL BE 3 TO 5 INCH DIA. CRUSHED ROCK OR ACCEPTABLE CRUSHED CEMENT CONCRETE.
- WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- THE ENTRANCE SHALL BE PROPERLY GRADED OR INCORPORATE DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVEMENT SURFACES, MUST BE REMOVED IMMEDIATELY.

**GENERAL NOTES :**

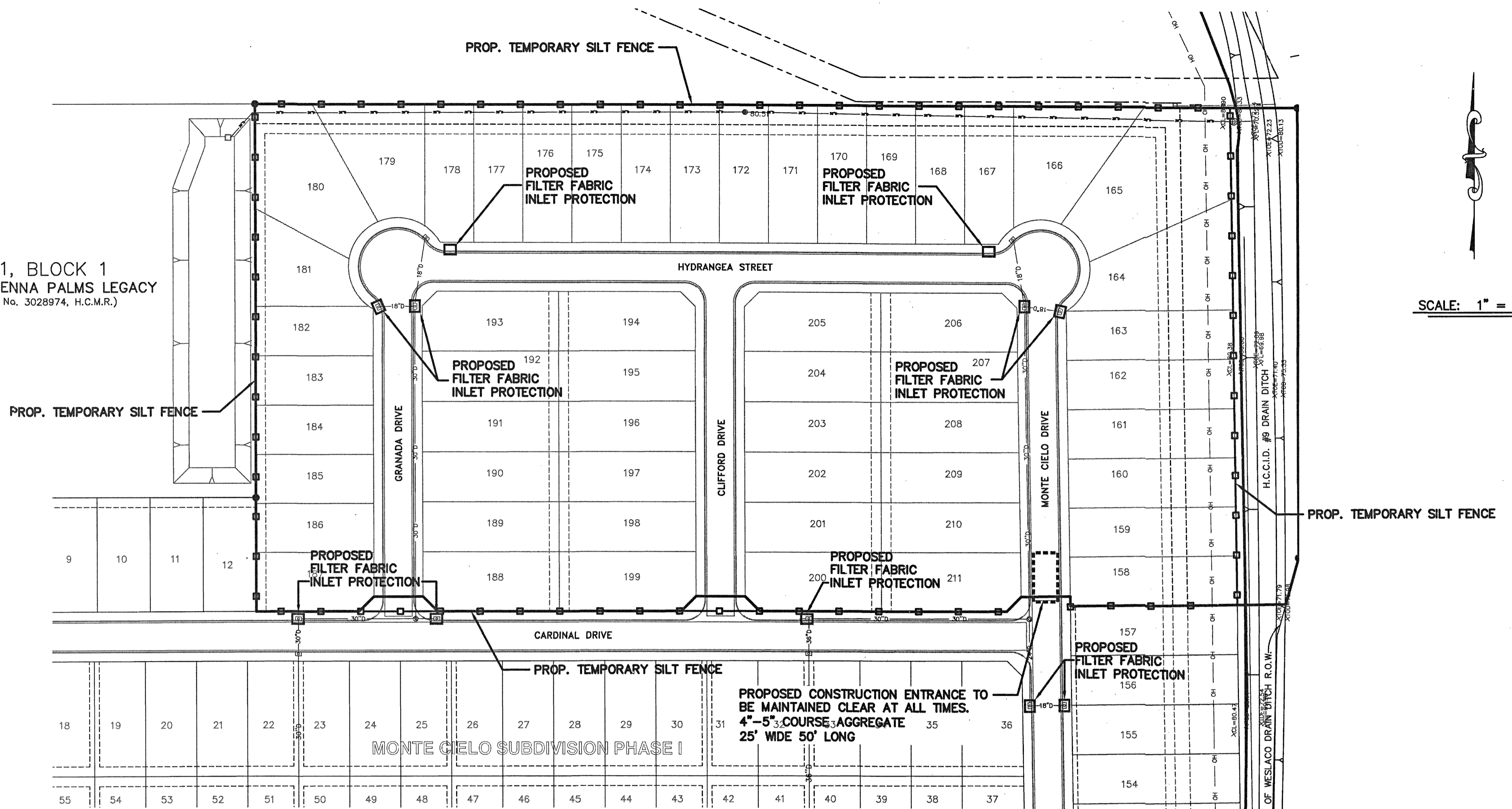
- STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED WITH A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 18".
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE, AS NECESSARY, TO PREVENT FLOW UNDER FENCE.
- THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAND IN THE GROUND AND BACKFILLED.
- SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OF TO BACKING SUPPORT, WITH IS IN TURN ATTACHED TO THE STEEL FENCE POST FABRIC SHALL OVERLAP AT ABUTTING ENDS A MINIMUM OF 3 FEET AND SHALL BE JOINED SUCH THAT NO BYPASS OR LEAKAGE OCCURS.
- INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL, REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

**SEDIMENT CONTROL FENCE USAGE GUIDELINES**

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2-YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

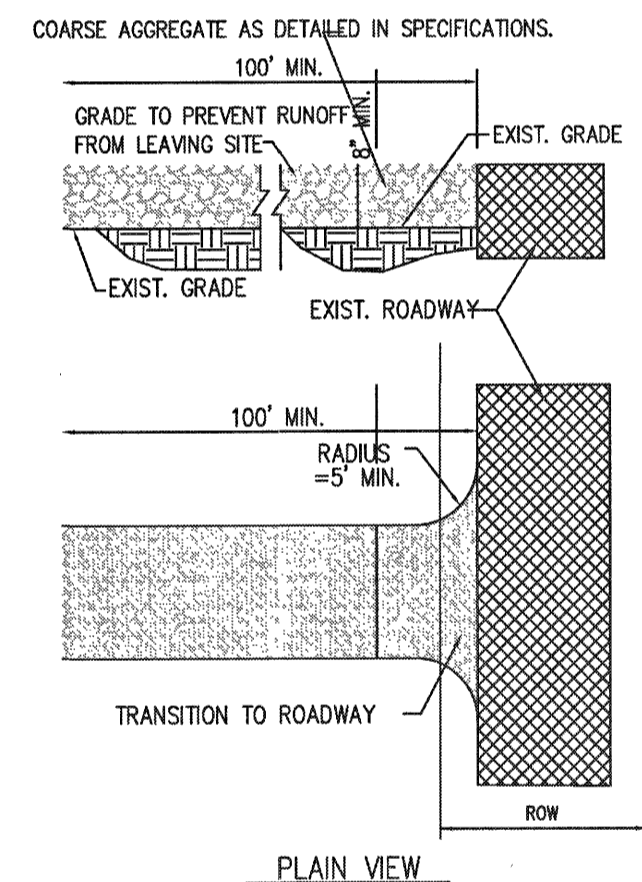
SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN TWO ACRES.

LOT 1, BLOCK 1  
AVANTI AT SIENNA PALMS LEGACY  
(DOCUMENT No. 3028974, H.C.M.R.)

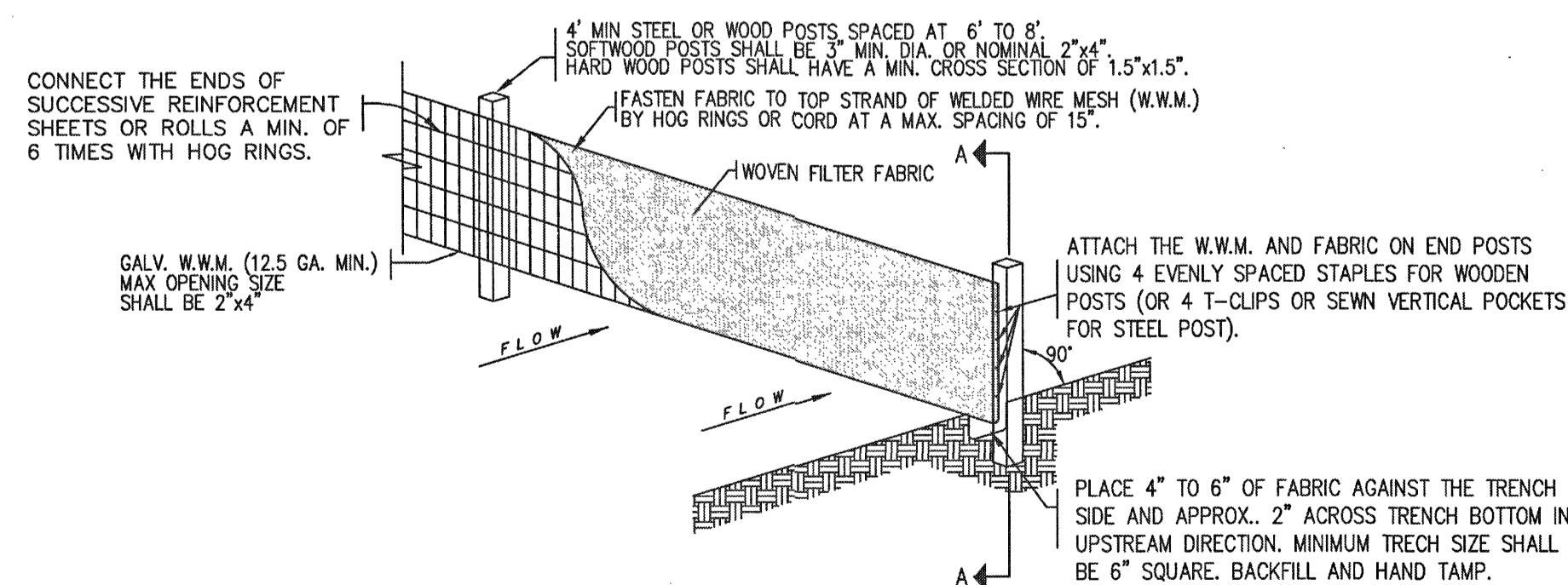


SCALE: 1" = 80'

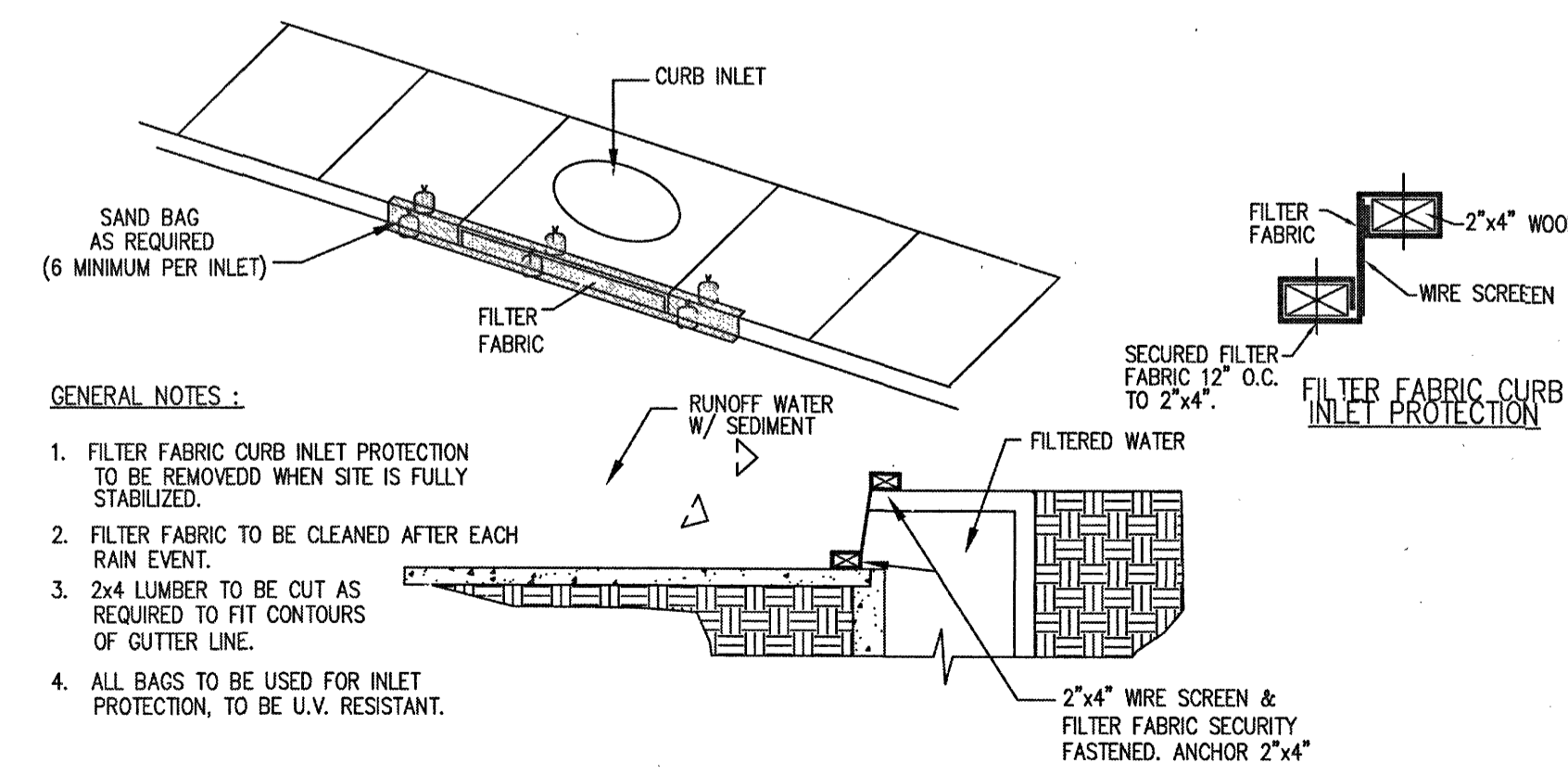
NOTE: CONTRACTOR TO PROVIDE THE FOLLOWING  
1. WASHOUT AREA  
2. MATERIAL STORAGE AREA  
3. FUEL AND CHEMICAL STORAGE AREA



STABILIZED CONSTRUCTION ENTRANCE/EXIT



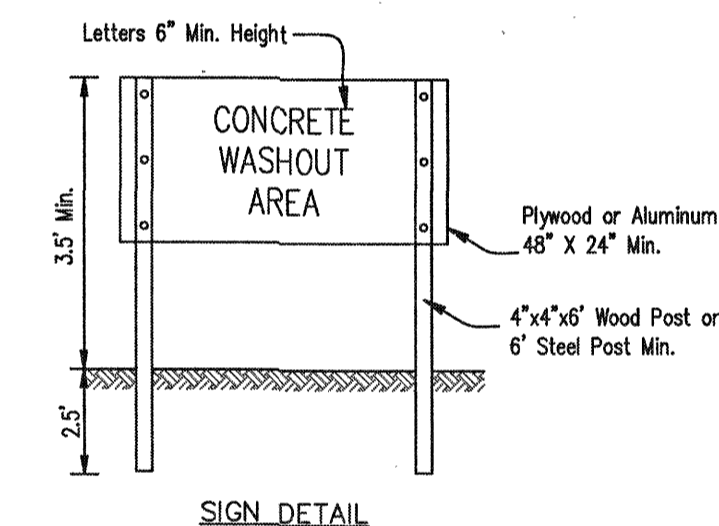
TEMPORARY SEDIMENT CONTROL FENCE



**GENERAL NOTES :**

- FILTER FABRIC CURB INLET PROTECTION TO BE REMOVED WHEN SITE IS FULLY STABILIZED.
- FILTER FABRIC TO BE CLEANED AFTER EACH RAIN EVENT.
- 2x4 LUMBER TO BE CUT AS REQUIRED TO FIT CONTOURS OF GUTTER LINE.
- ALL BAGS TO BE USED FOR INLET PROTECTION, TO BE U.V. RESISTANT.

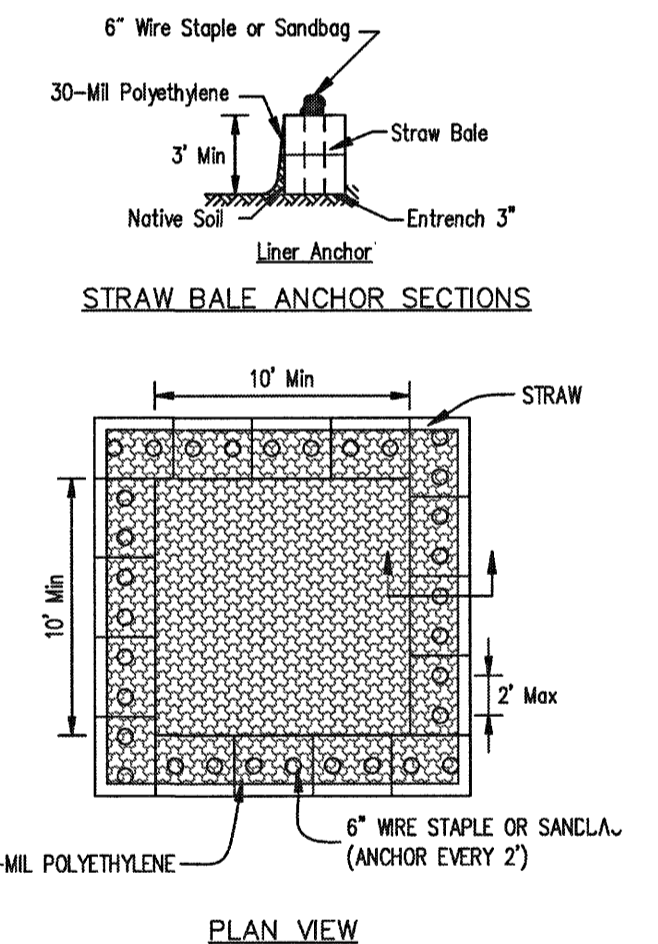
FILTER FABRIC CURB INLET PROTECTION



SIGN DETAIL

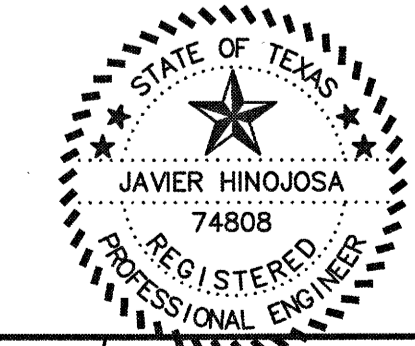
**NOTES:**

- Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
- Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
- Each straw bale is to be staked in place using (2) 2"x2"x4' wooden stakes.



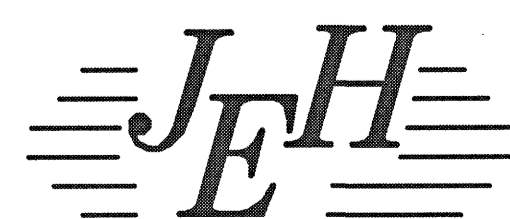
PLAN VIEW

**TEMPORARY CONCRETE WASHOUT AREA**



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JAVIER HINOJOSA P.E. # 74808 ON OCTOBER 4, 2024

REVISIONS	230301A
PROJECT No.	OCT. 3, 2024
DATE:	G.T. & A.G.
DRAWN BY	J.H.
CHK. BY	

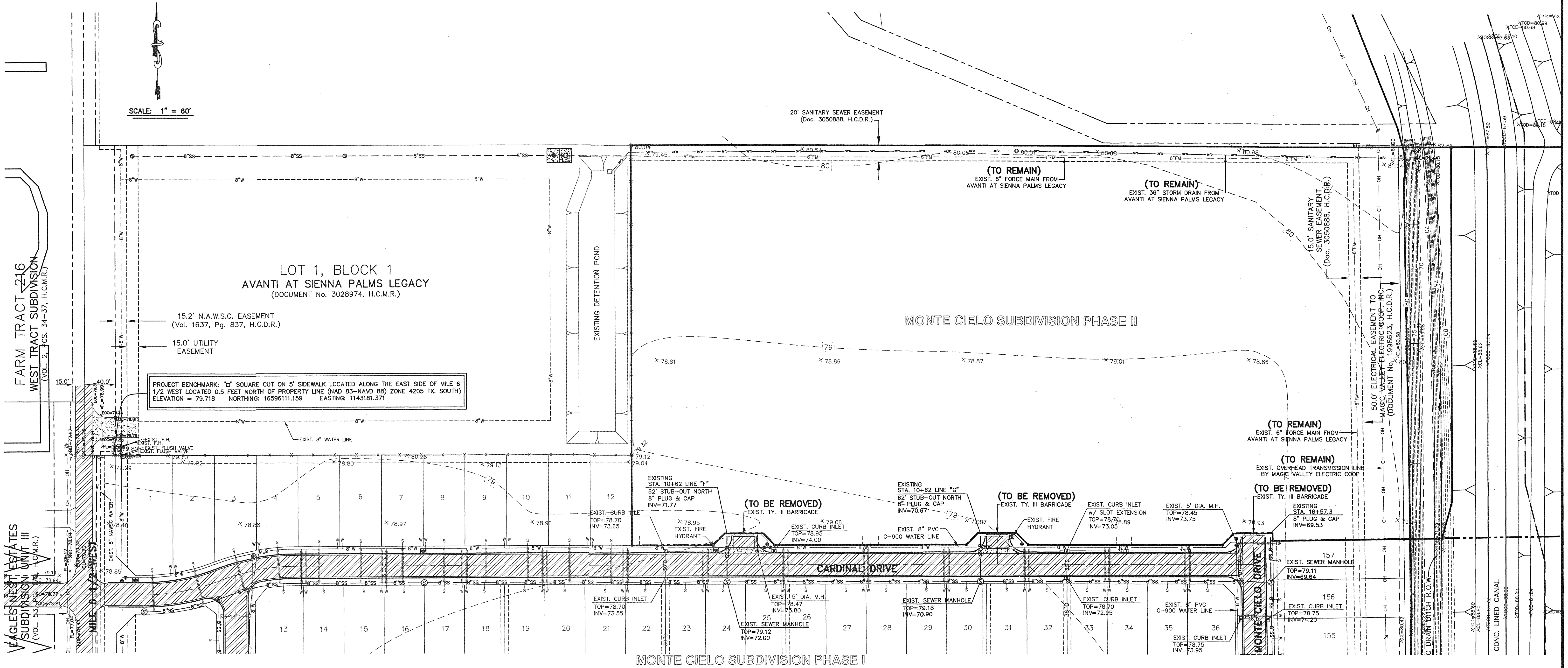


**JAVIER HINOJOSA ENGINEERING**  
CONSULTING ENGINEERS  
416 E. DOVE AVENUE McALLEN, TEXAS 78504  
PHONE (956) 668-1588  
TBPELS FIRM No. 1295  
javier@javierhinojosaeng.com

SUGGESTED EROSION CONTROL PLAN  
MONTE CIELO SUBDIVISION PHASE II  
WESLACO, TEXAS

SHEET  
**2**  
OF 12 SHEETS  
230301A

SCALE: 1" = 60'



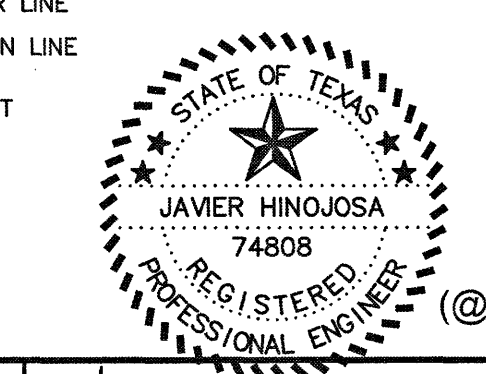
LEGEND

- xToc=113.48    EXIST. TOP OF CURB ELEVATION    ⊗
- xTod=113.48    EXIST. TOP OF DITCH ELEVATION    ⊗
- xToe=113.48    EXIST. BOTTOM OF DITCH ELEVATION    ⊗
- xCl=113.31    EXIST. CENTER LINE ELEVATION    ⊗
- xFl=115.10    EXIST. FLOW LINE ELEVATION    ⊗
- x115.10    EXIST. NATURAL GROUND ELEVATION    ⊗
- ⊙    EXIST. DRAIN MANHOLE    ⊙
- ⊙    EXIST. SEWER MANHOLE    ⊙
- ⊙    EXIST. POWER POLE    ⊙
- ⊙    EXIST. GUY WIRE    ⊙
- ⊙    EXIST. ROAD SIGN    ⊙
- ⊙    EXIST. GAS METER    ⊙
- ⊙    EXIST. WATER METER    ⊙
- ⊙    EXIST. TELEPHONE PEDESTAL    ⊙
- ⊙    EXIST. FIRE HYDRANT    ⊙
- ⊙    EXIST. WATER VALVE    ⊙
- ⊙    EXIST. IRRIGATION VALVE    ⊙
- ⊙    EXIST. TREE    ⊙
- ⊙    WATER SERVICE    ⊙
- ⊙    IRRIGATION STAND PIPE    ⊙
- ⊙    ELECTRIC TRANSFORMER    ⊙
- ⊙    ELECTRIC GROUND BOX    ⊙
- ⊙    EXIST. 18" SANITARY SEWER LINE    ⊙
- ⊙    EXIST. 12" SANITARY SEWER LINE    ⊙
- ⊙    EXIST. 18" STORM DRAINAGE LINE    ⊙
- ⊙    EXIST. 24" STORM DRAINAGE LINE    ⊙
- ⊙    EXIST. 30" STORM DRAINAGE LINE    ⊙
- ⊙    EXIST. 8" WATER LINE    ⊙
- ⊙    EXIST. IRRIGATION LINE    ⊙
- ⊙    EXIST. PAVEMENT    ⊙

REVISIONS	


**JAVIER HINOJOSA ENGINEERING**  
 CONSULTING ENGINEERS  
 416 E. DOVE AVENUE McALLEN, TEXAS 78504  
 PHONE (956) 668-1588  
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 javier@javierhinojosaeng.com

EXISTING UTILITY AND TOPOGRAPHIC LAYOUT  
**MONTE CIELO SUBDIVISION PHASE II**  
 WESLACO, TEXAS



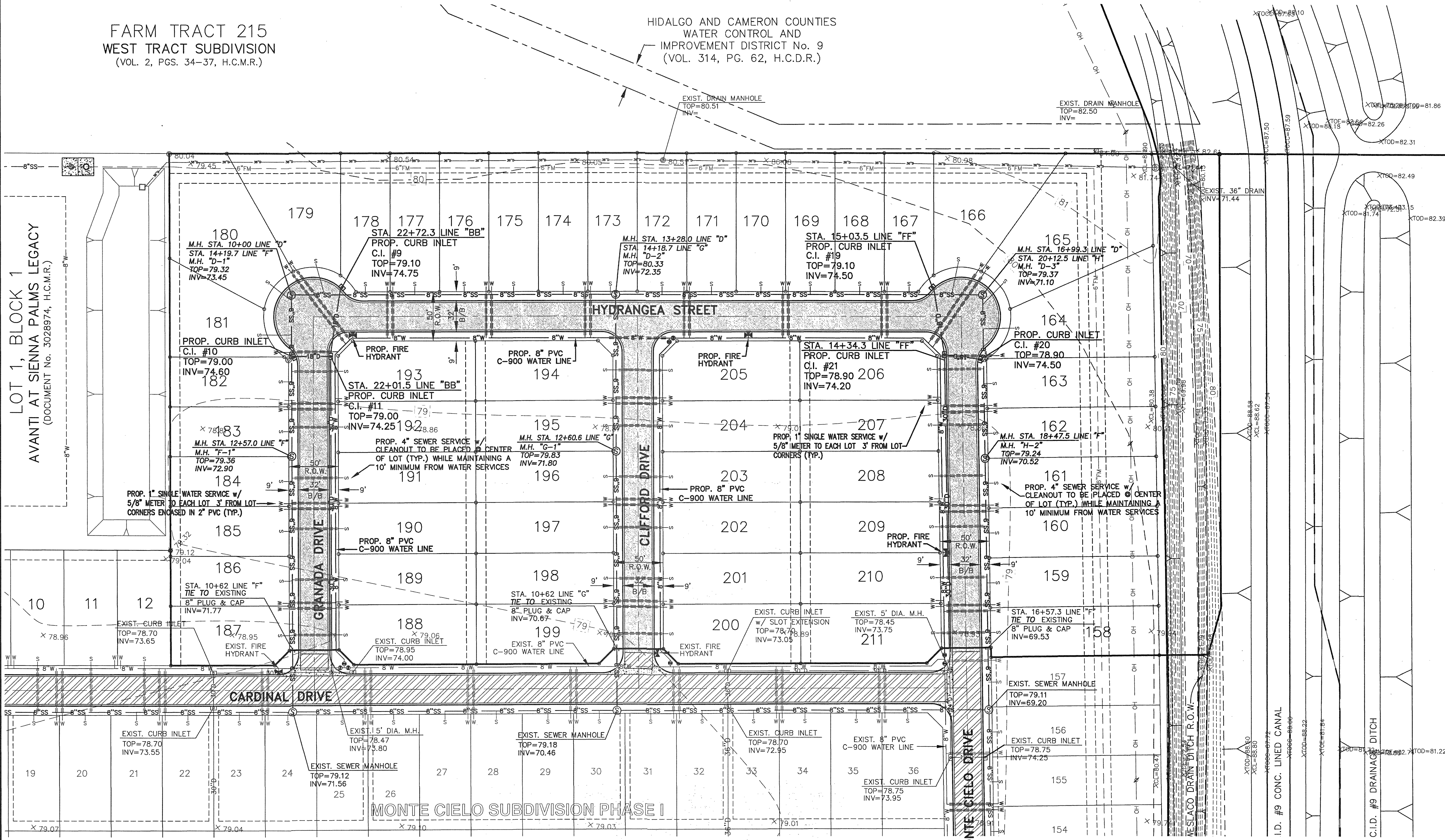
**811**  
 Know what's below.  
 Call before you dig.  
 (at least 48 hours prior to digging)

FARM TRACT 215  
WEST TRACT SUBDIVISION  
(VOL. 2, PGS. 34-37, H.C.M.R.)

HIDALGO AND CAMERON COUNTIES  
WATER CONTROL AND  
IMPROVEMENT DISTRICT No. 9  
(VOL. 314, PG. 62, H.C.D.R.)

SCALE: 1" = 50'

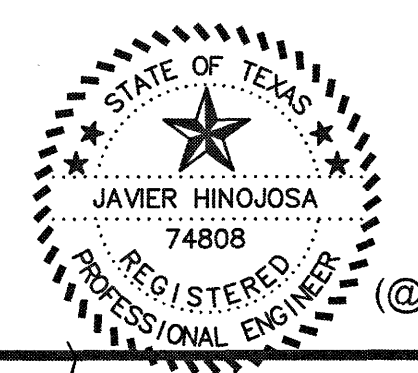
LOT 1, BLOCK 1  
AVANTI AT SIENNA PALMS LEGACY  
(DOCUMENT No. 3028974, H.C.M.R.)



**LEGEND**

xTOD=113.48	EXIST. TOP OF CURB ELEVATION
xTOD=113.48	EXIST. TOP OF DITCH ELEVATION
xTOE=113.48	EXIST. BOTTOM OF DITCH ELEVATION
xCL=113.31	EXIST. CENTER LINE ELEVATION
xFL=115.10	EXIST. FLOW LINE ELEVATION
x115.10	EXIST. NATURAL GROUND ELEVATION
⊙	EXIST. DRAIN MANHOLE
⊙	EXIST. SEWER MANHOLE
⊙	EXIST. POWER POLE
⊙	EXIST. GUY WIRE
⊙	EXIST. ROAD SIGN
⊙	EXIST. GAS METER
⊙	EXIST. WATER METER
⊙	EXIST. TELEPHONE PEDESTAL
⊙	EXIST. FIRE HYDRANT
⊙	EXIST. WATER VALVE
⊙	EXIST. IRRIGATION VALVE
⊙	EXIST. TREE
⊙	WATER SERVICE
⊙	IRRIGATION STAND PIPE
⊙	ELECTRIC TRANSFORMER
⊙	ELECTRIC GROUND BOX
---	EXIST. 18" SANITARY SEWER LINE
---	EXIST. 12" SANITARY SEWER LINE
---	EXIST. 18" STORM DRAINAGE LINE
---	EXIST. 24" STORM DRAINAGE LINE
---	EXIST. 30" STORM DRAINAGE LINE
---	EXIST. 8" WATER LINE
---	EXIST. IRRIGATION LINE
▨	EXIST. PAVEMENT

- NOTE:
1. ALL FIRE HYDRANTS AND VALVES SHALL BE MANUFACTURED BY MUELLER.
  2. ALL WATER AND SEWER LINES (INCLUDING SERVICES) CROSSING THE ROAD SHALL BE ENCASED.
  3. ALL METER BOXES SHALL BE DFW 1300 SERIES W/ BLUE LID AND ANTENNA READ HOLE.
  4. THE CONTRACTOR SHALL STAMP FACE OF CURB WITH "W" FOR WATER AND "S" FOR SEWER INDICATING SERVICE LOCATION.



**811**  
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(@ least 48 hours prior to digging)

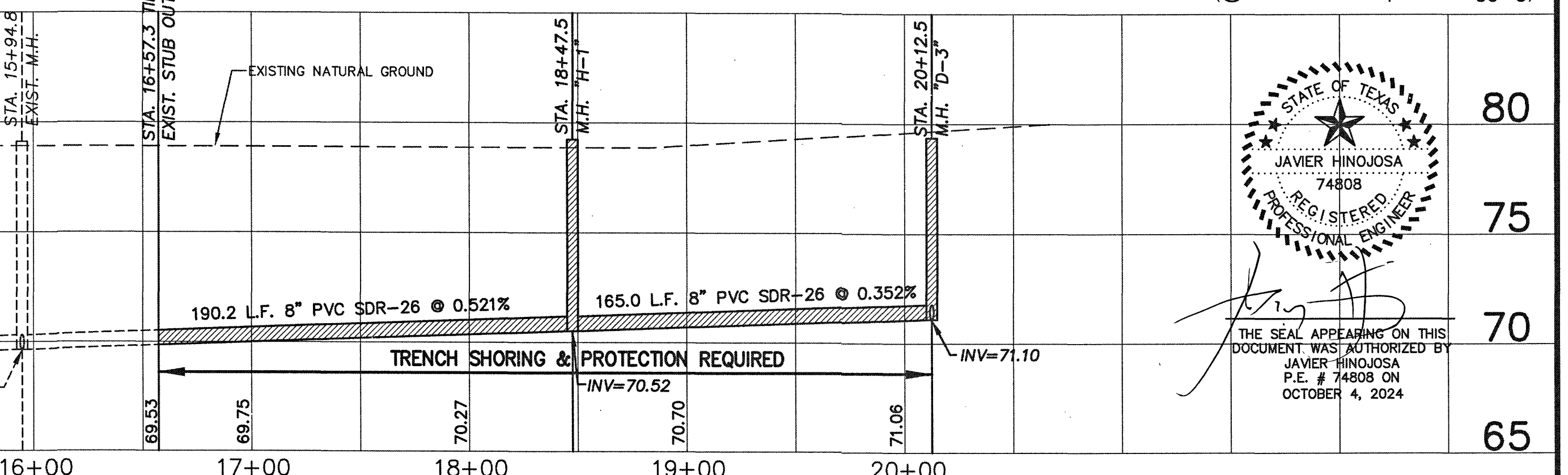
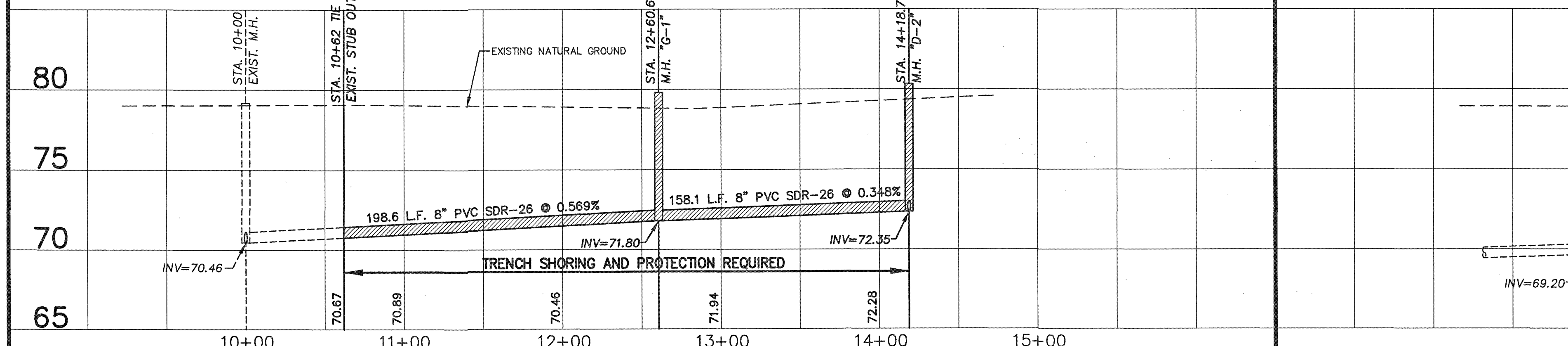
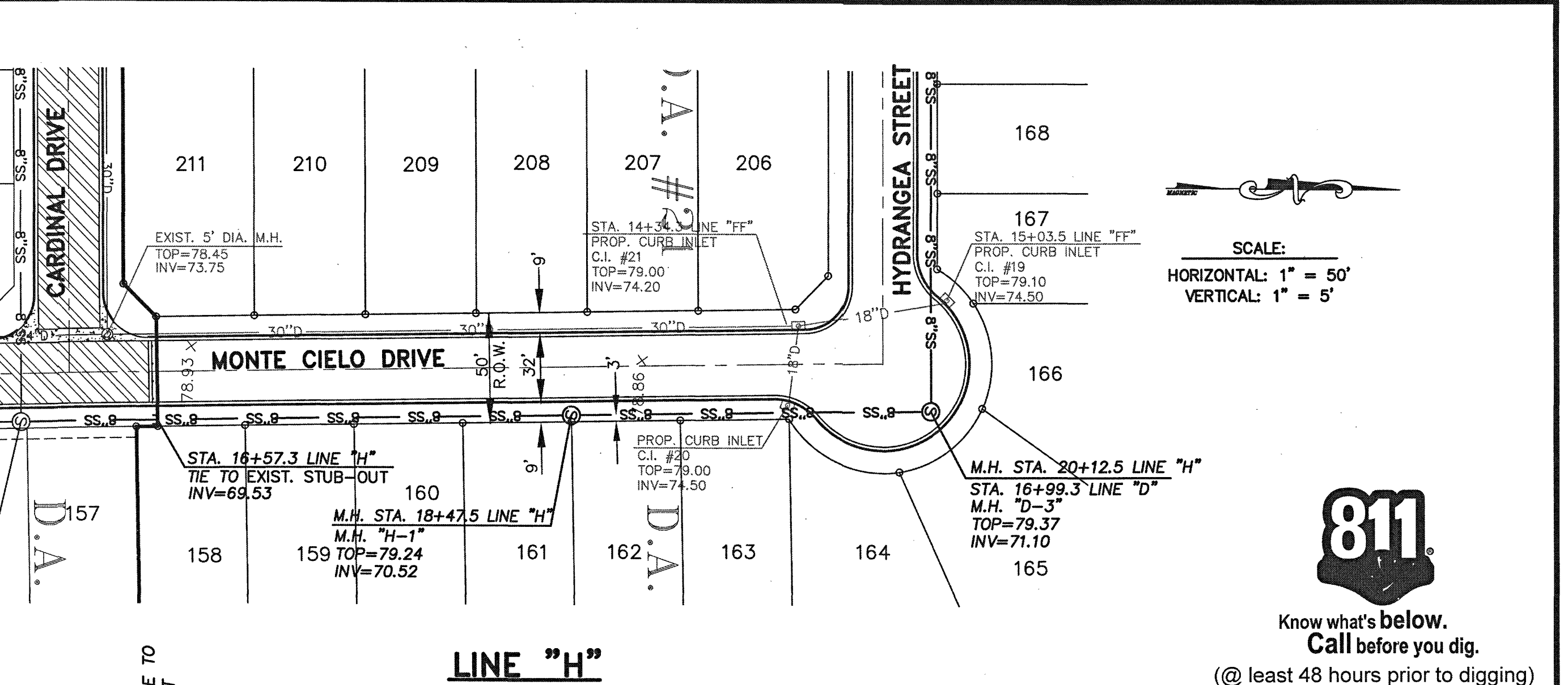
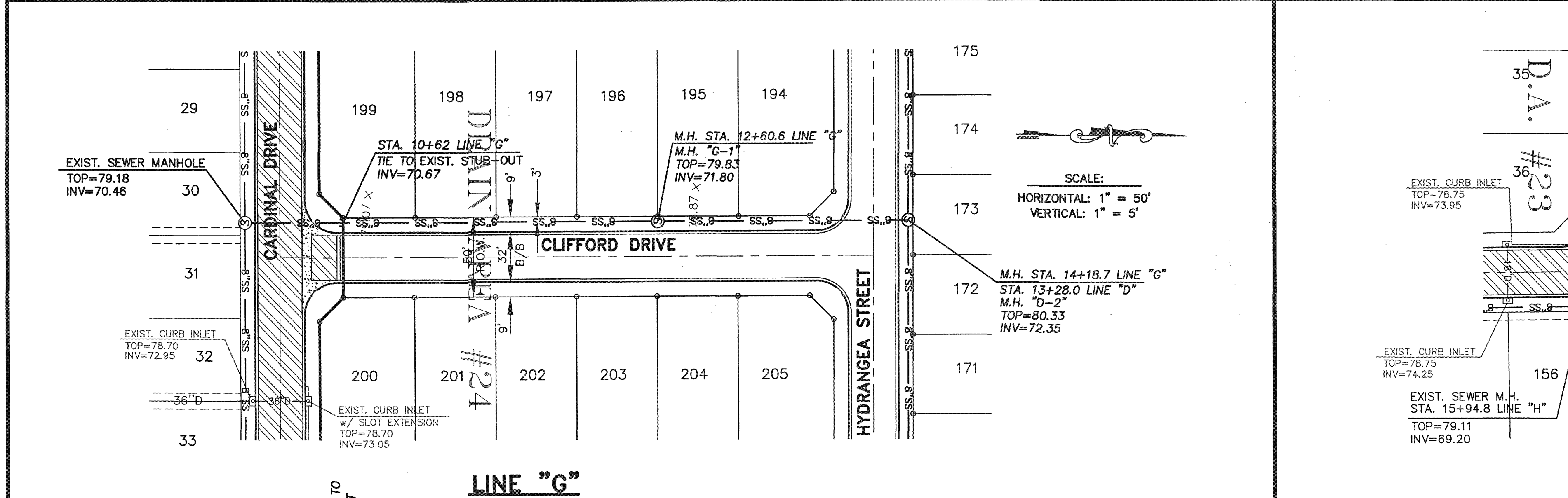
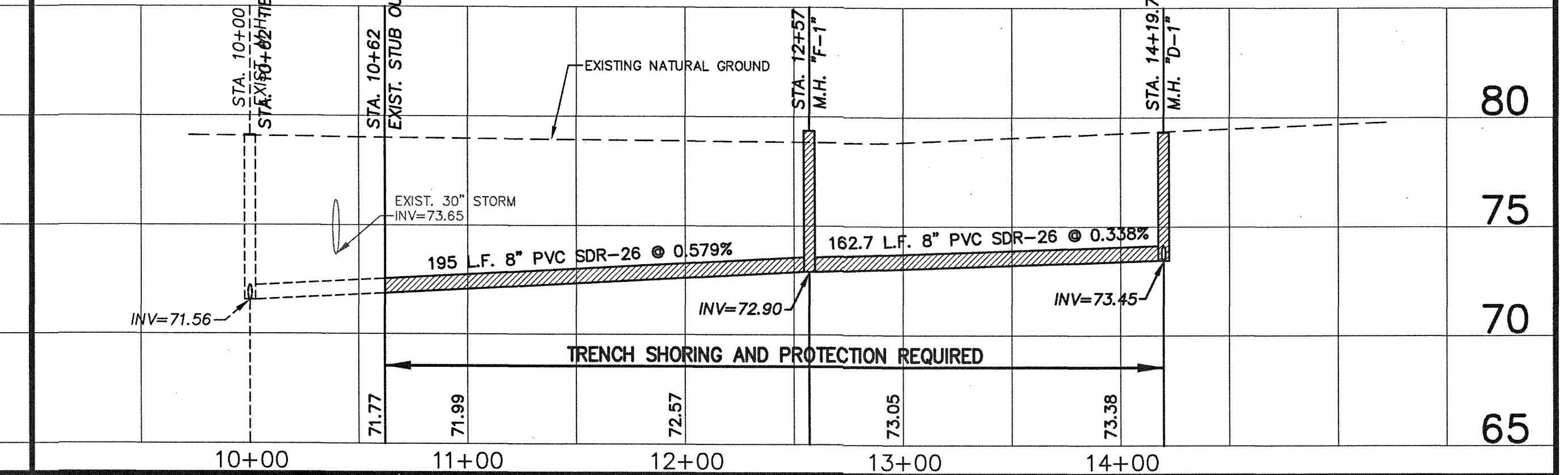
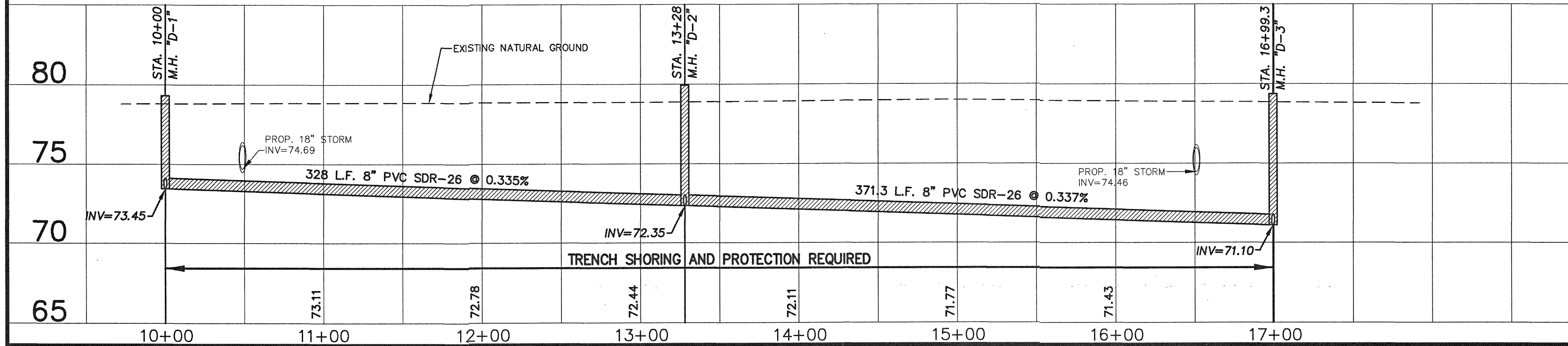
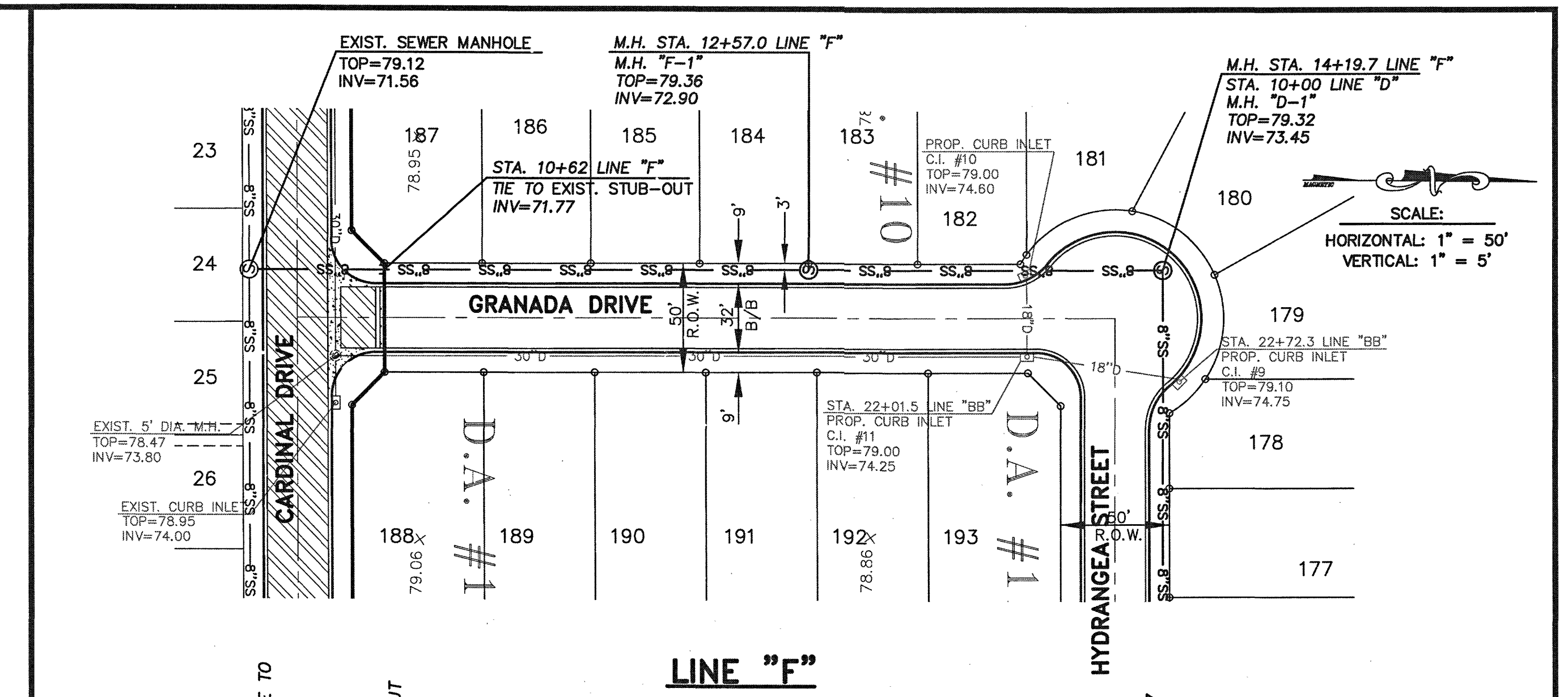
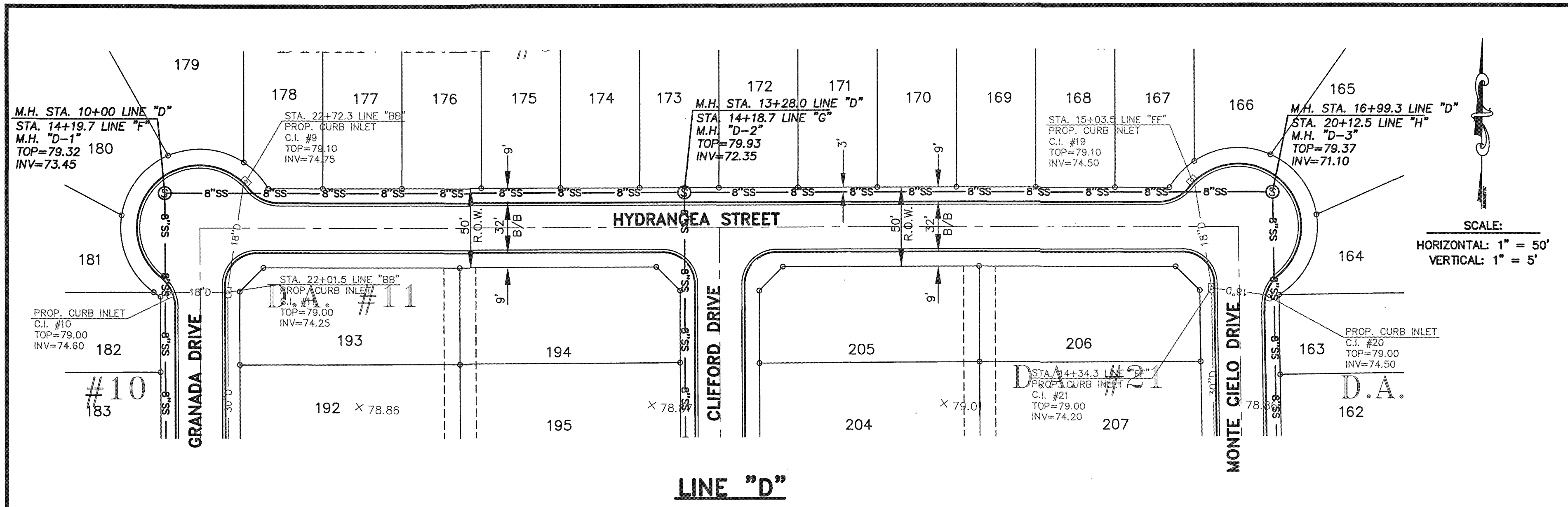
REVISIONS	

**J.E.H.**  
JAVIER HINOJOSA ENGINEERING  
CONSULTING ENGINEERS  
416 E. DOVE AVENUE McALLEN, TEXAS 78504  
PHONE (956) 668-1588  
TBPELS FIRM No. 1295  
javier@javierhinojosaeng.com

PROPOSED UTILITY LAYOUT  
MONTE CIELO SUBDIVISION PHASE II  
WESLACO, TEXAS

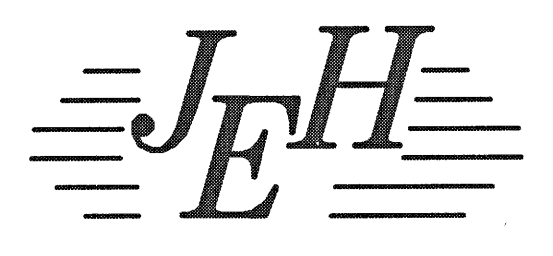
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SHEET  
**4**  
OF 12 SHEETS  
230301A



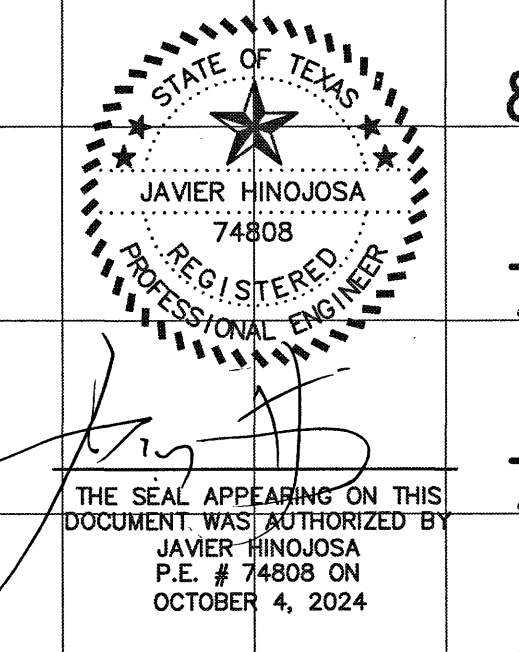
REVISIONS	

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 PROJECT No.  
 OCT. 3, 2024  
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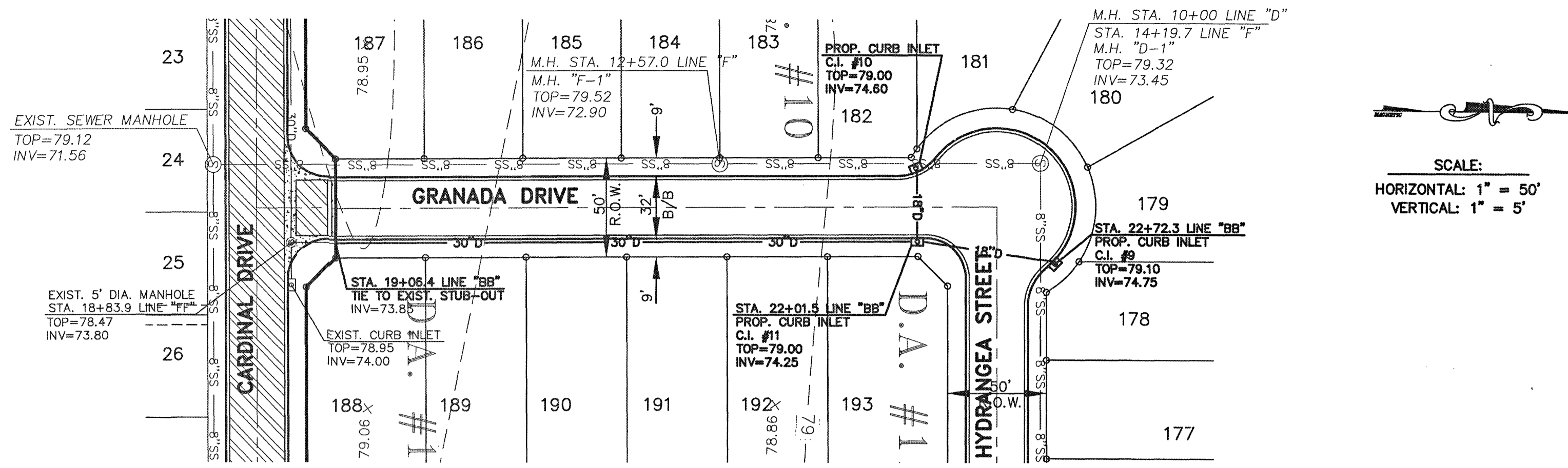


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 416 E. DOVE AVENUE McALLEN, TEXAS 78504  
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SANITARY SEWER PLAN AND PROFILE  
**LINE "D", "F", "G" and "H"**  
 MONTE CIELO SUBDIVISION PHASE II  
 WESLACO, TEXAS

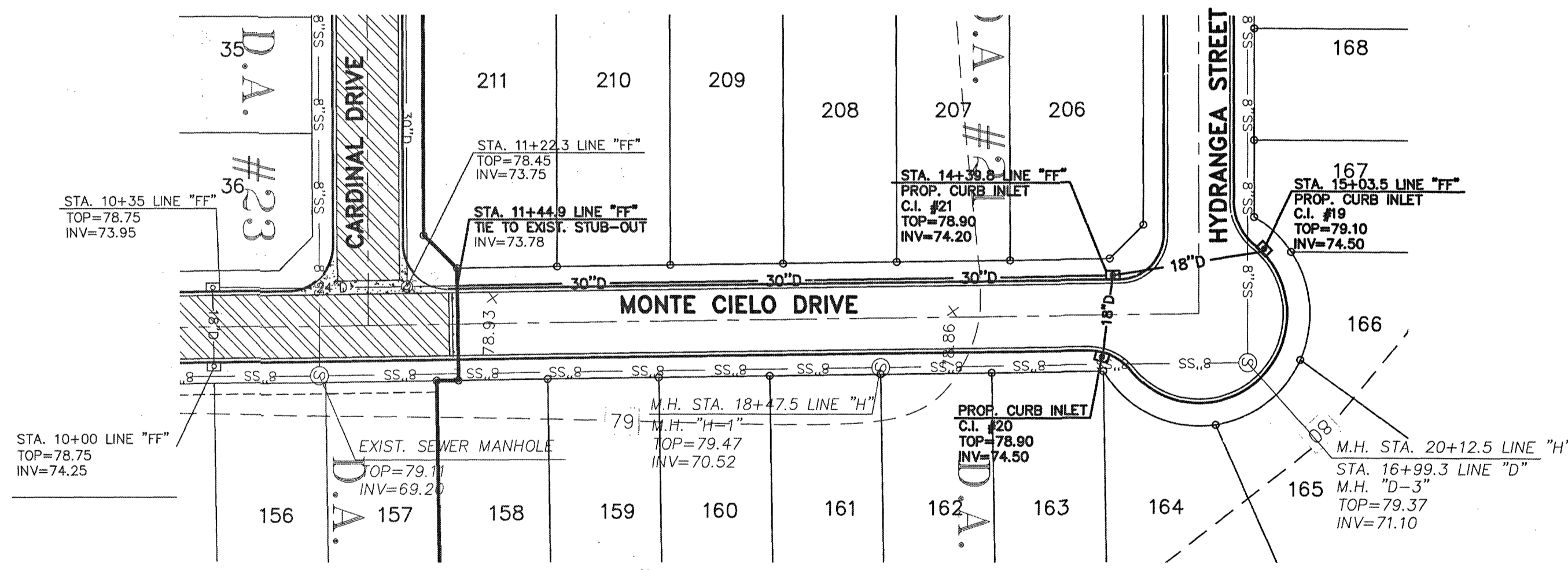
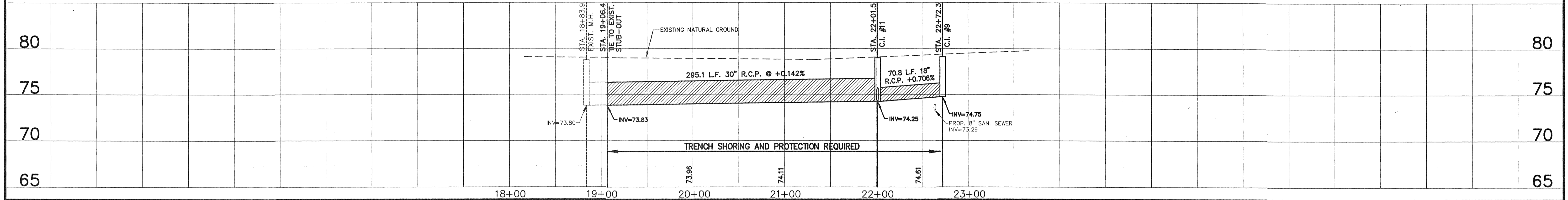


SHEET  
**5**  
 OF 12 SHEETS



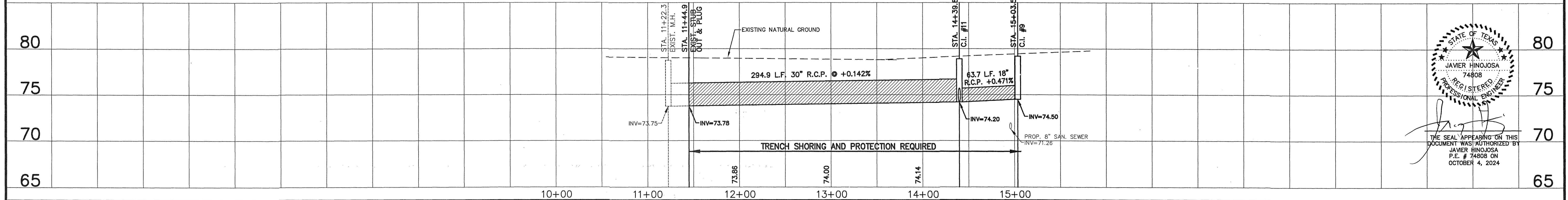
SCALE:  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

LINE "BB"

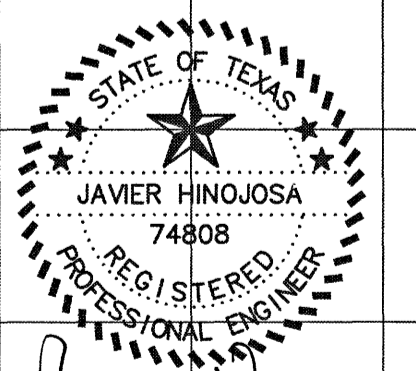


SCALE:  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

LINE "FF"



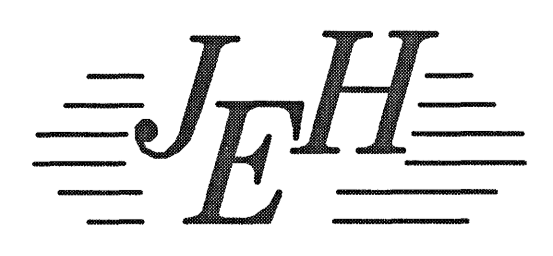
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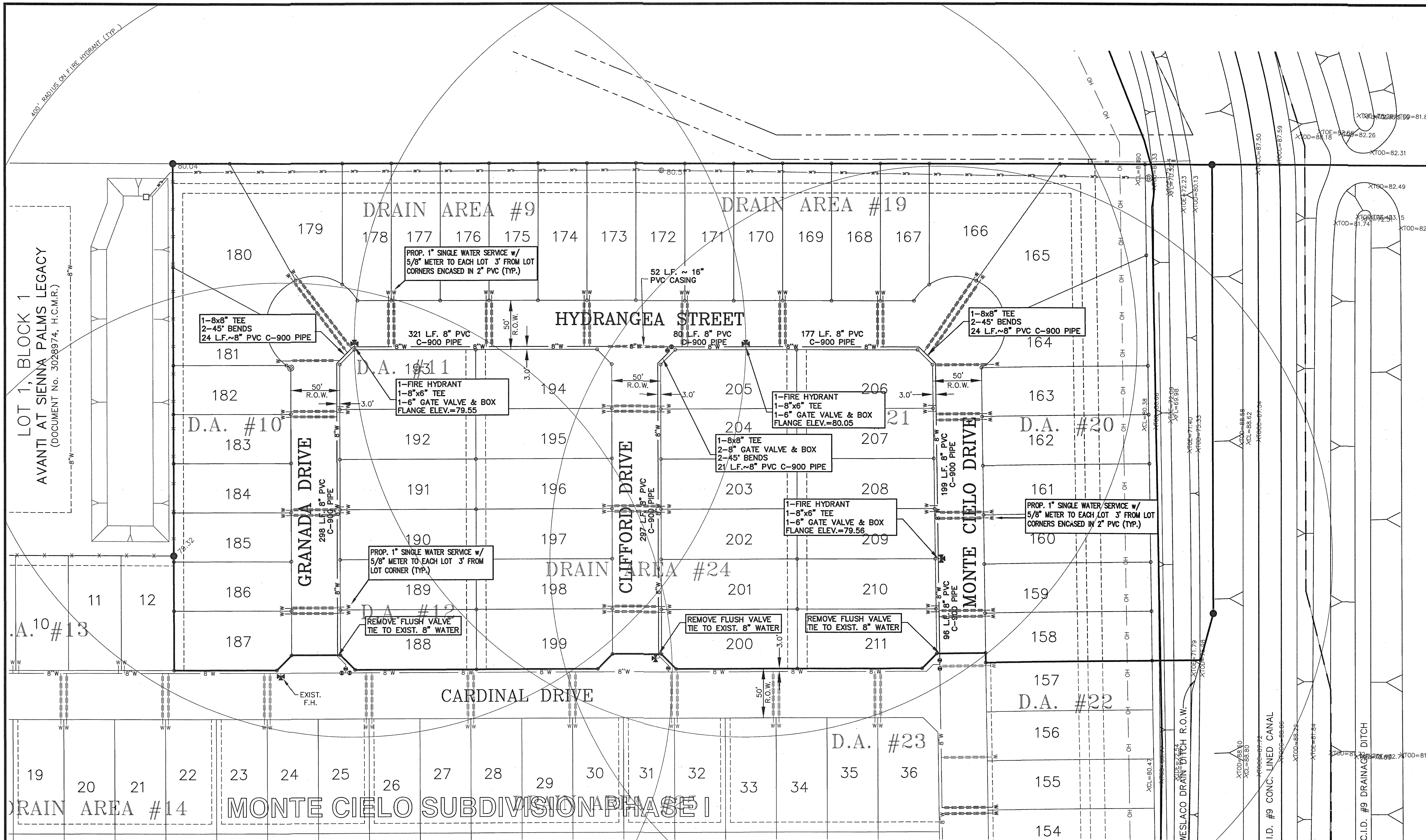


**JAVIER HINOJOSA ENGINEERING**  
CONSULTING ENGINEERS  
416 E. DOVE AVENUE McALLEN, TEXAS 78504  
PHONE (956) 668-1588  
TBPELS FIRM No. 1295  
javier@javierhinojosaeng.com

STORM DRAIN PLAN AND PROFILE  
**LINES "BB" and "FF"**  
MONTE CIELO SUBDIVISION PHASE II  
WESLACO, TEXAS

SHEET  
**6**  
OF 12 SHEETS





SCALE: 1" = 50'

**LEGEND**

- xTOD=113.48 EXIST. TOP OF CURB ELEVATION
- xTOD=113.48 EXIST. TOP OF DITCH ELEVATION
- xTOD=113.48 EXIST. BOTTOM OF DITCH ELEVATION
- xCL=113.31 EXIST. CENTER LINE ELEVATION
- xFL=115.10 EXIST. FLOW LINE ELEVATION
- x115.10 EXIST. NATURAL GROUND ELEVATION
- ⊕ EXIST. DRAIN MANHOLE
- ⊕ EXIST. SEWER MANHOLE
- ⊕ EXIST. POWER POLE
- ⊕ EXIST. GUY WIRE
- ⊕ EXIST. ROAD SIGN
- ⊕ EXIST. GAS METER
- ⊕ EXIST. WATER METER
- ⊕ EXIST. TELEPHONE PEDESTAL
- ⊕ EXIST. FIRE HYDRANT
- ⊕ EXIST. WATER VALVE
- ⊕ EXIST. IRRIGATION VALVE
- ⊕ EXIST. TREE
- WATER SERVICE
- IRRIGATION STAND PIPE
- ⊕ ELECTRIC TRANSFORMER
- ⊕ ELECTRIC GROUND BOX
- - - 8"SS - - - EXIST. 18" SANITARY SEWER LINE
- - - 12"SS - - - EXIST. 12" SANITARY SEWER LINE
- - - 18"D - - - EXIST. 18" STORM DRAINAGE LINE
- - - 24"D - - - EXIST. 24" STORM DRAINAGE LINE
- - - 30"D - - - EXIST. 30" STORM DRAINAGE LINE
- - - 8"W - - - EXIST. 8" WATER LINE
- - - IRR - - - EXIST. IRRIGATION LINE
- ▨ EXIST. PAVEMENT

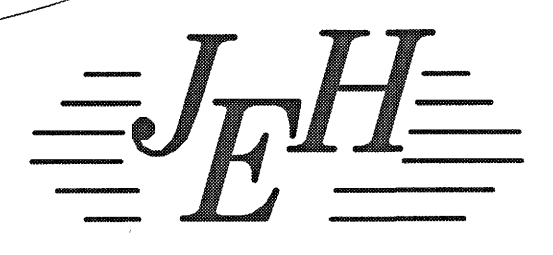
- NOTE:
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  3. ALL METER BOXES SHALL BE DFW 1300 SERIES w/ BLUE LID AND ANTENNA READ HOLE.
  4. THE CONTRACTOR SHALL STAMP FACE OF CURB WITH "W" FOR WATER AND "S" FOR SEWER INDICATING SERVICE LOCATION.



(@ least 48 hours prior to digging)

REVISIONS	

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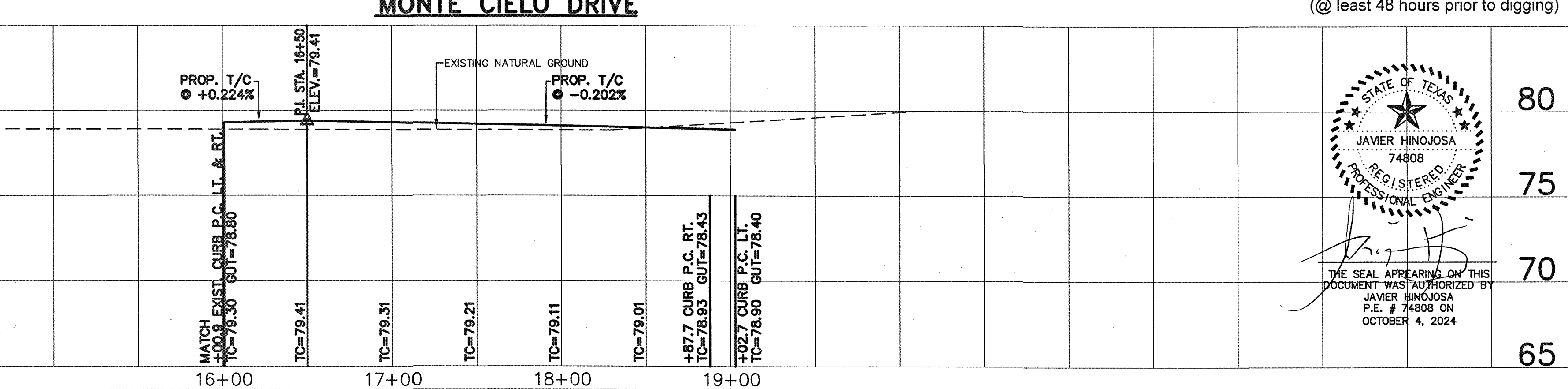
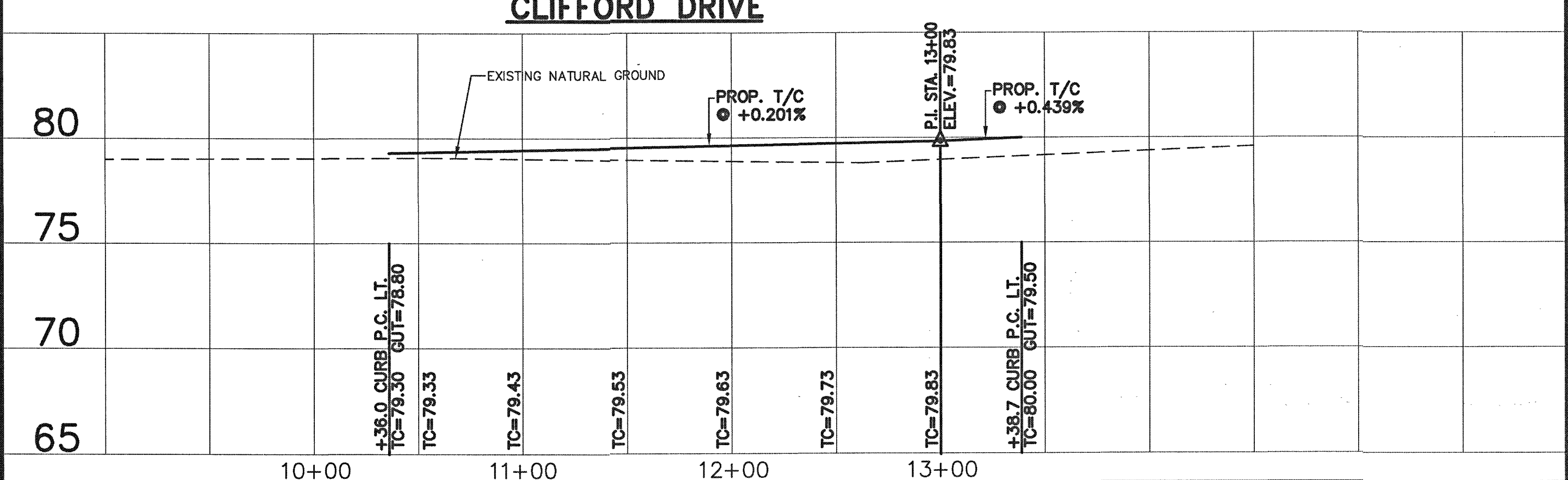
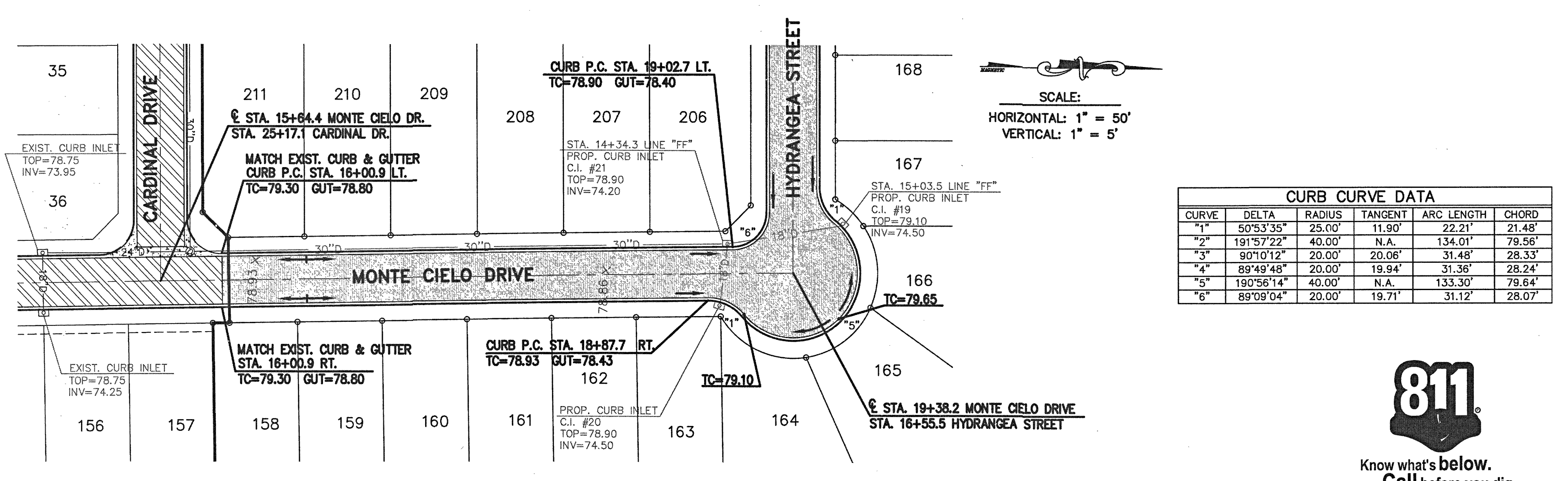
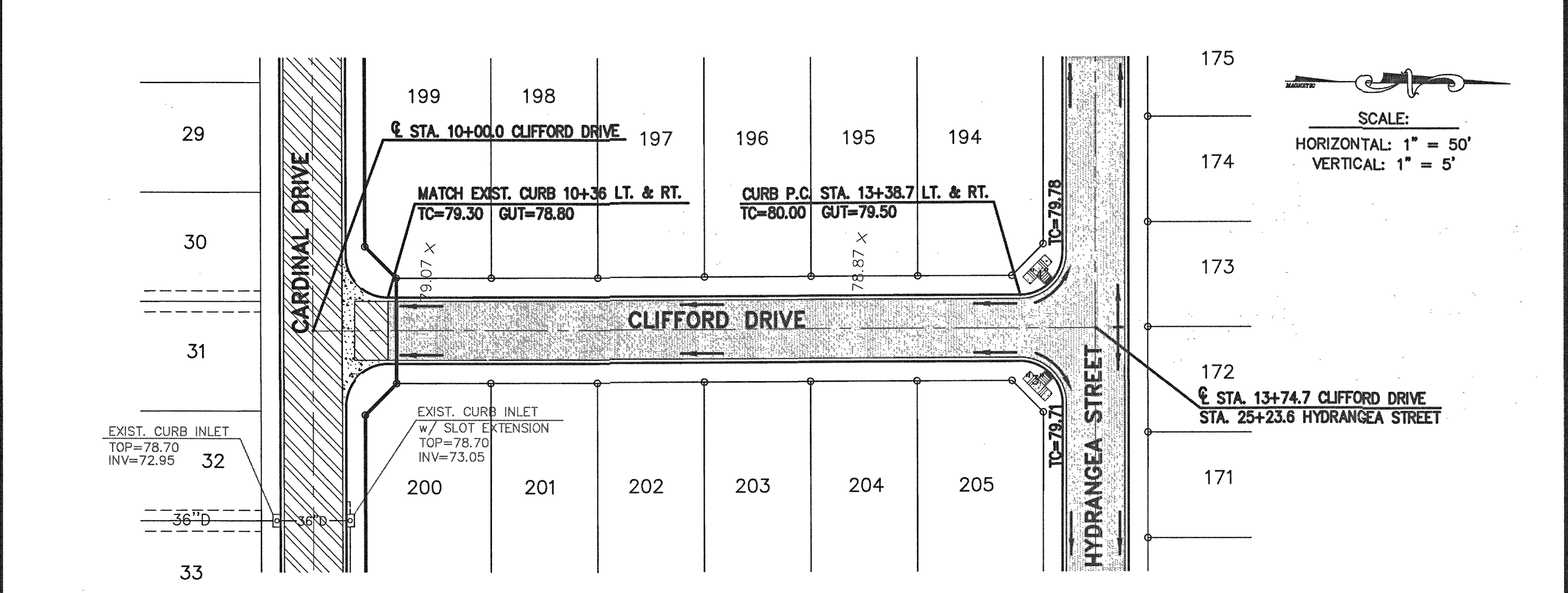
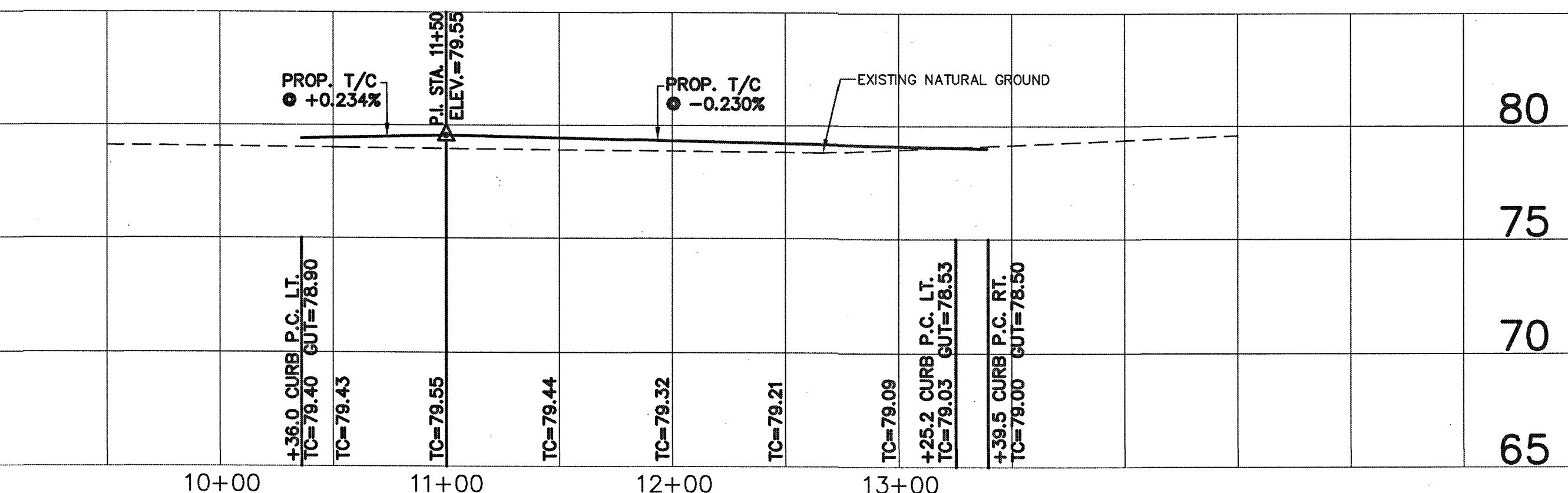
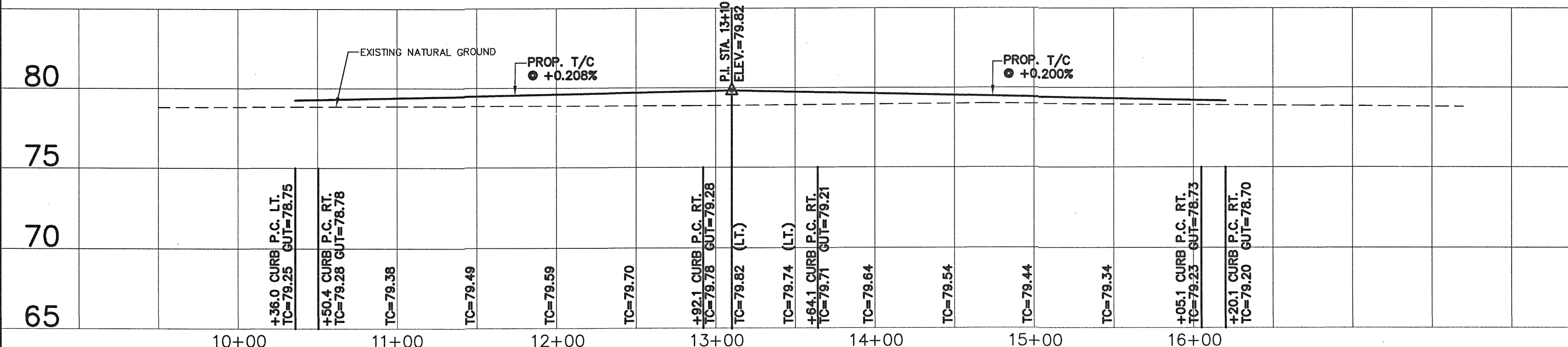
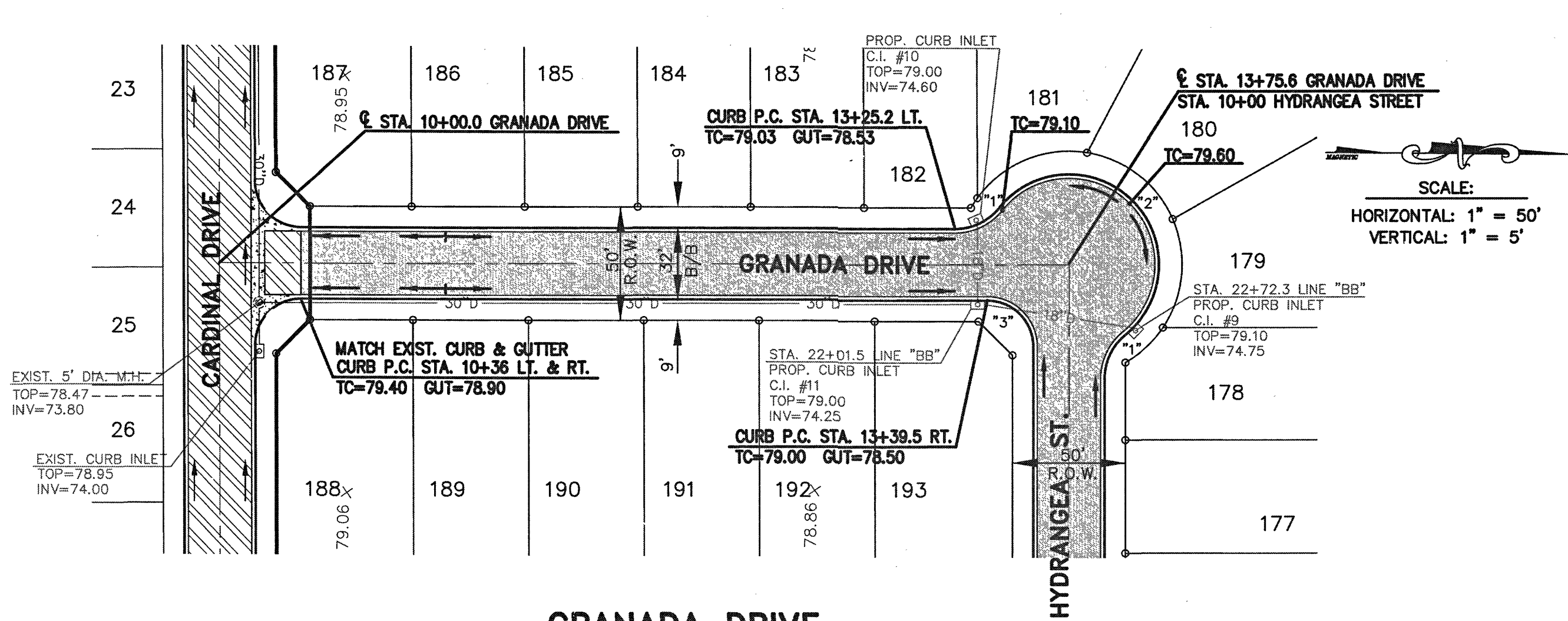
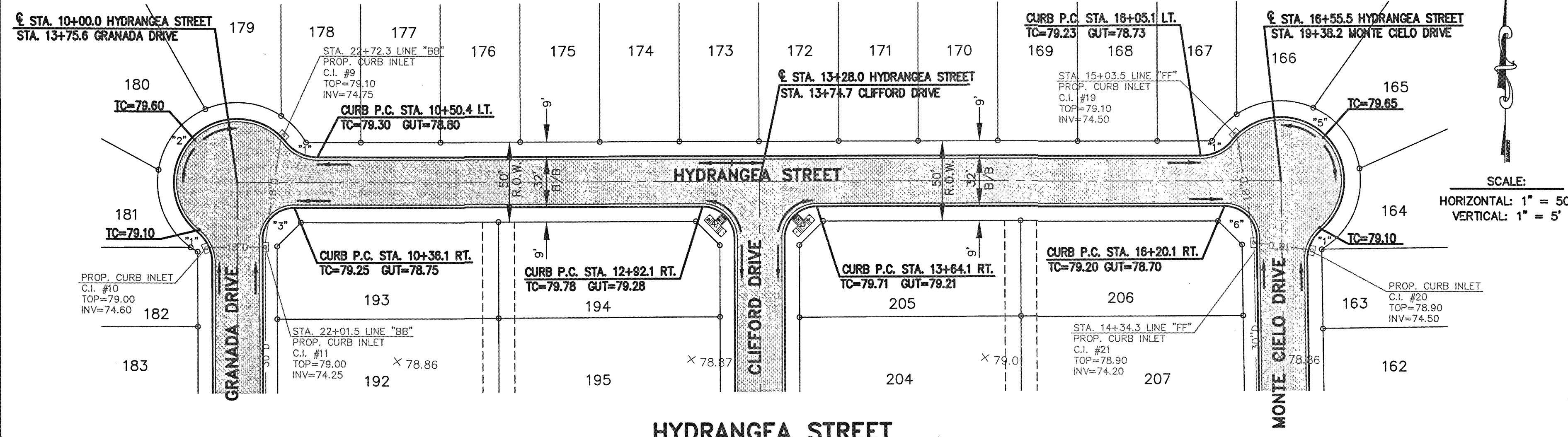


**JAVIER HINOJOSA ENGINEERING**  
 CONSULTING ENGINEERS  
 416 E. DOVE AVENUE McALLEN, TEXAS 78504  
 PHONE (956) 668-1588  
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 javier@javierhinojosaeng.com

WATER DISTRIBUTION LAYOUT  
**MONTE CIELO SUBDIVISION PHASE II**  
 WESLACO, TEXAS

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY  
 JAVIER HINOJOSA  
 P.E. # 74808 ON  
 OCTOBER 4, 2024

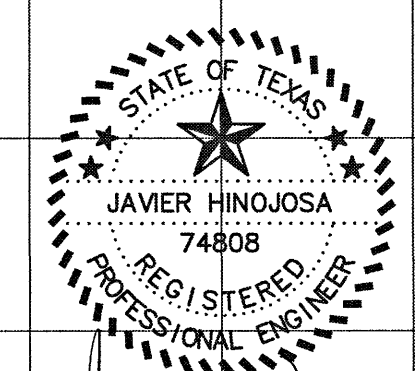
SHEET  
**7**  
 OF 12 SHEETS



CURB CURVE DATA					
CURVE	DELTA	RADIUS	TANGENT	ARC LENGTH	CHORD
"1"	50°53'35"	25.00'	11.90'	22.21'	21.48'
"2"	191°57'22"	40.00'	N.A.	134.01'	79.56'
"3"	90°10'12"	20.00'	20.06'	31.48'	28.33'
"4"	89°49'48"	20.00'	19.94'	31.36'	28.24'
"5"	190°56'14"	40.00'	N.A.	133.30'	79.64'
"6"	89°09'04"	20.00'	19.71'	31.12'	28.07'



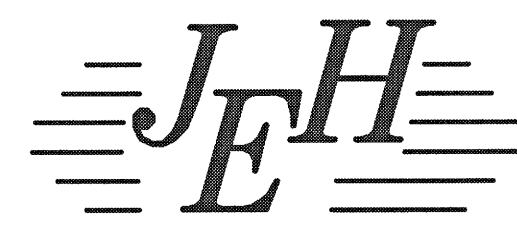
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P.E. # 74808 ON  
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REVISIONS	

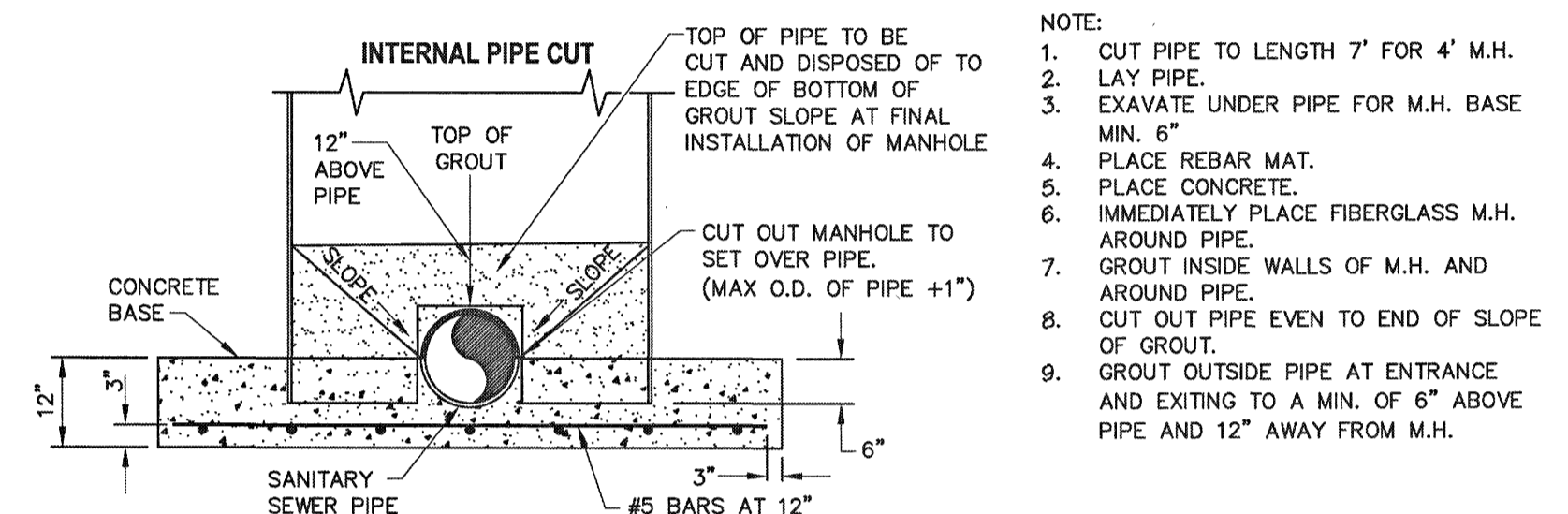
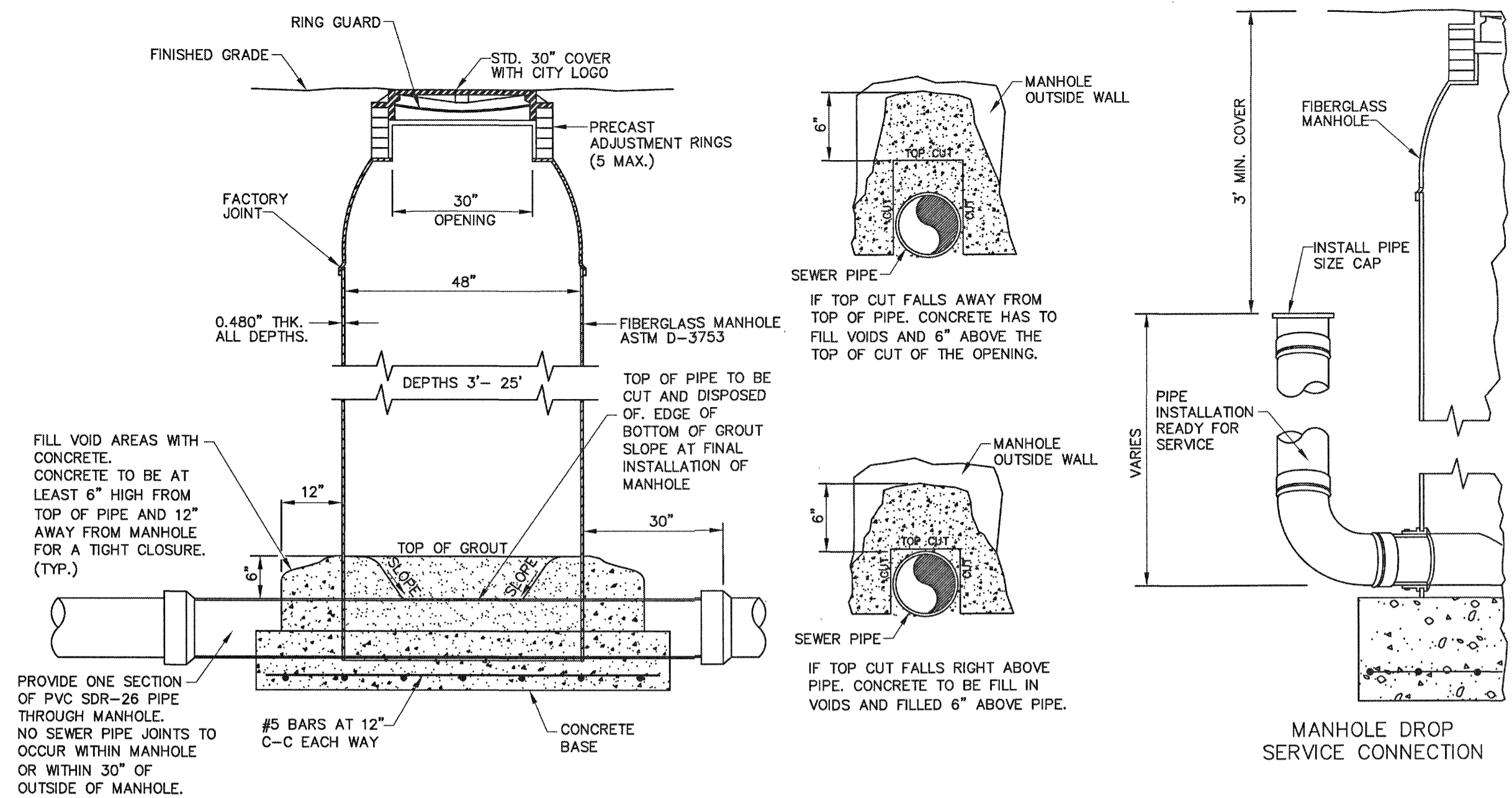
230301A  
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CHK. BY



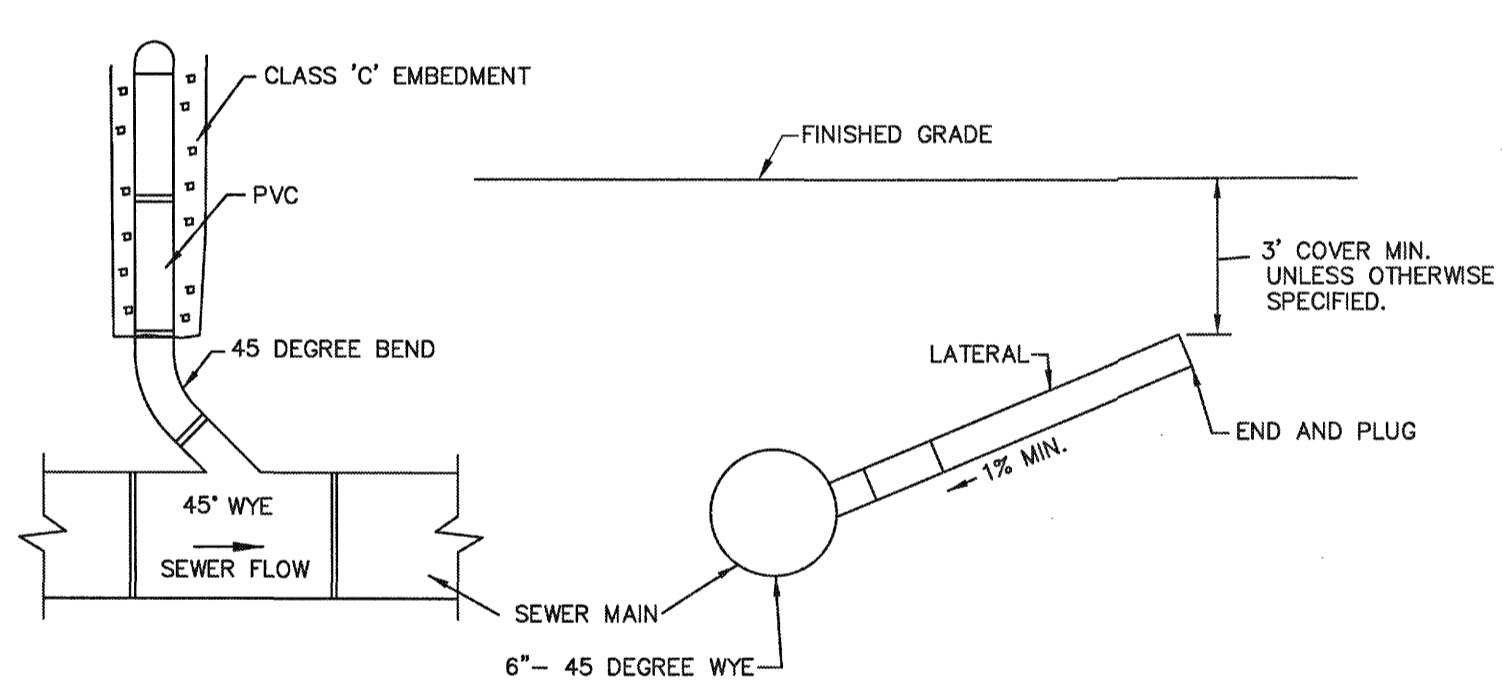
**JAVIER HINOJOSA ENGINEERING**  
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TBPELS FIRM No. 1295  
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STREET PLAN AND PROFILE  
**HYDRANGEA STREET, GRANADA DRIVE,  
CLIFFORD DRIVE and MONTE CIELO DRIVE**  
MONTE CIELO SUBDIVISION PHASE II  
WESLACO, TEXAS

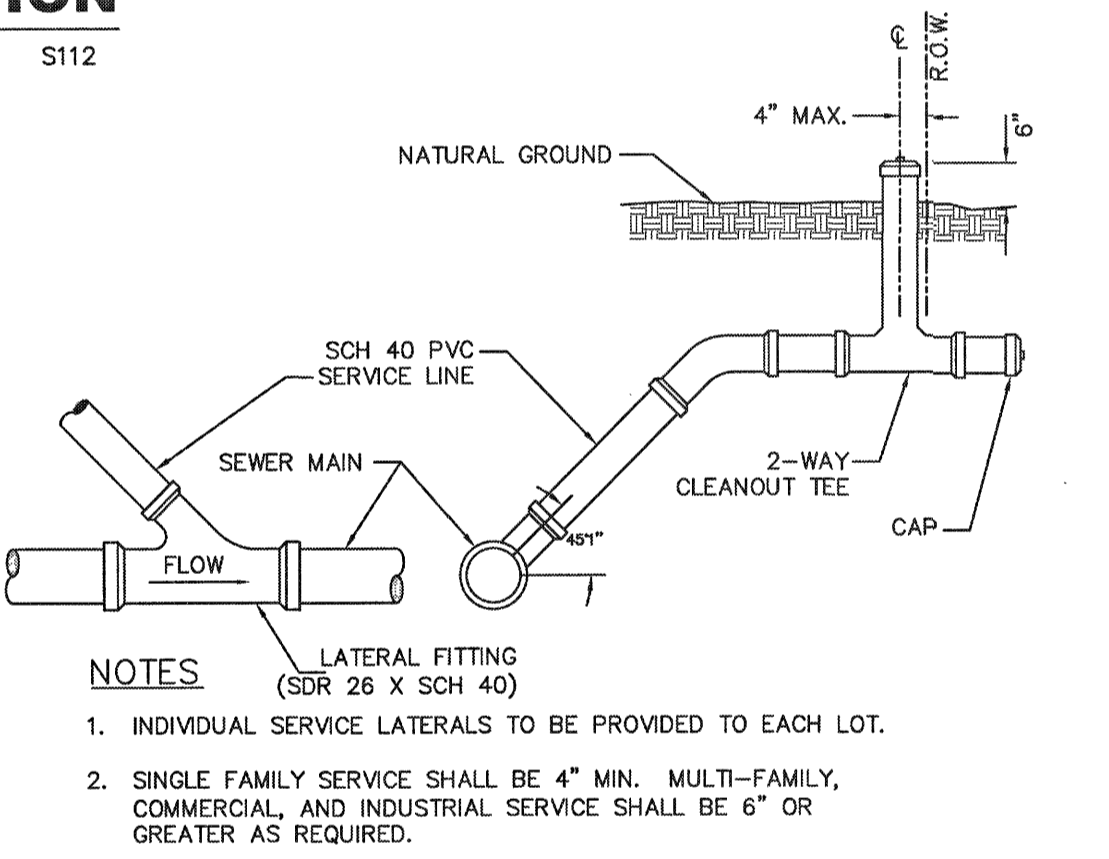
SHEET  
**8**  
OF 12 SHEETS



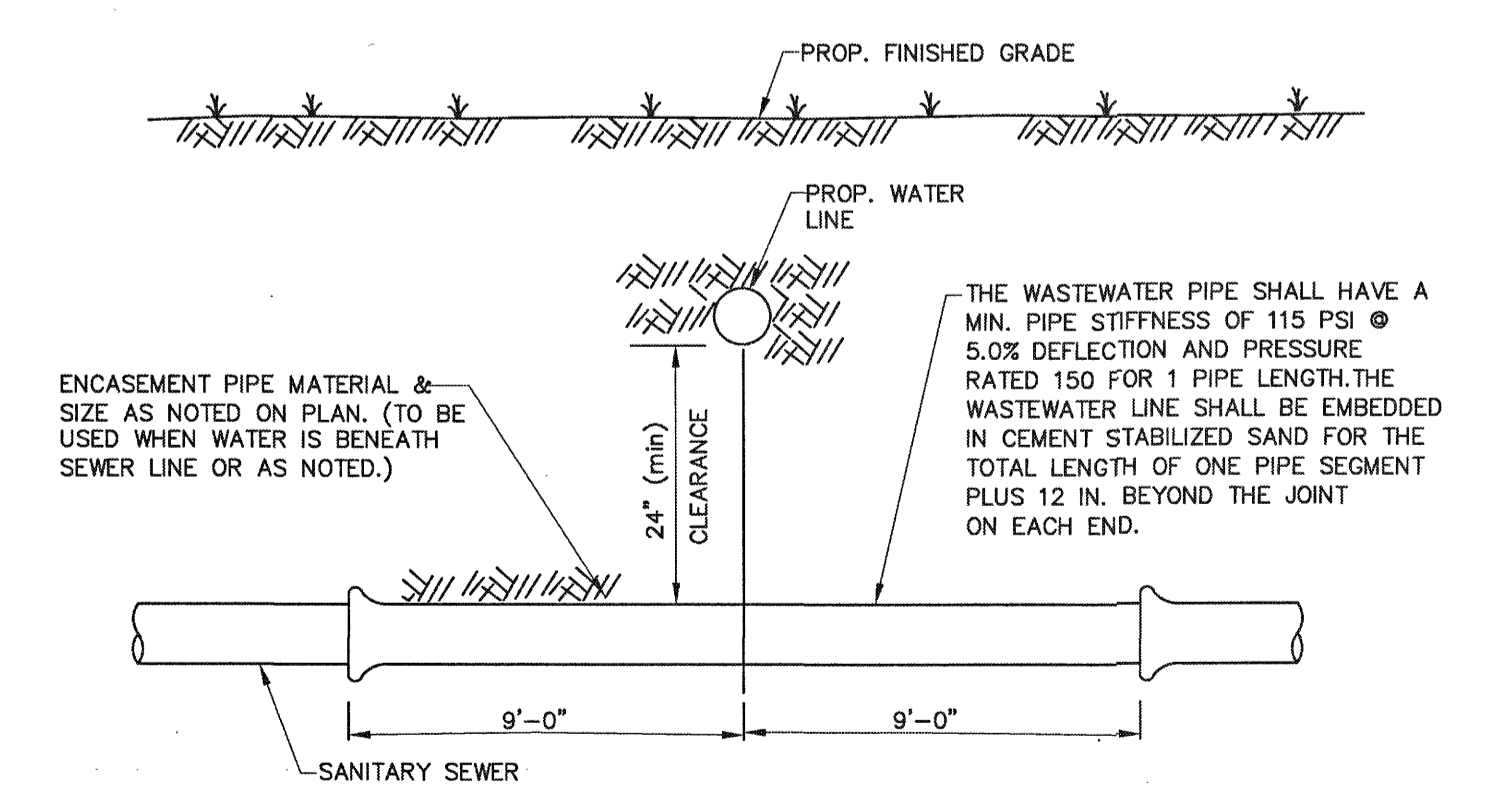
**TYPICAL FIBERGLASS MANHOLE AND INSTALLATION**  
NTS S112



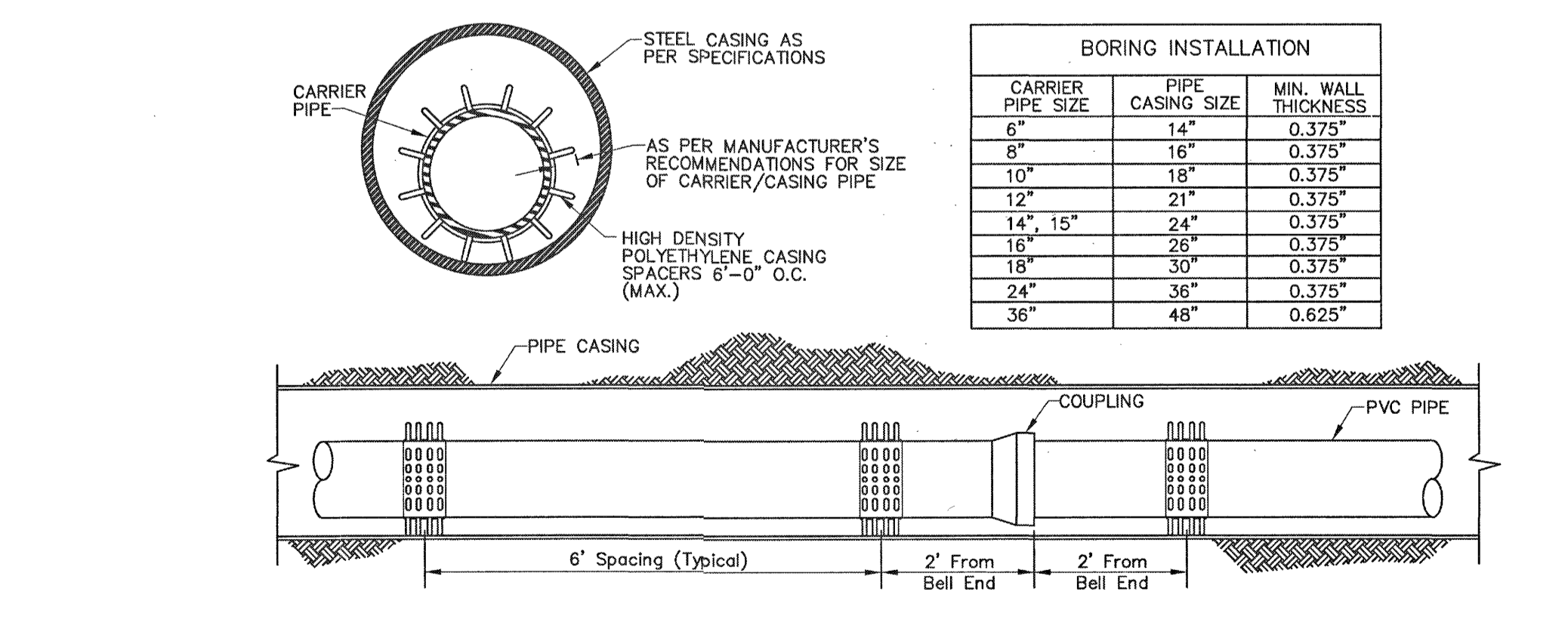
**TYPICAL SANITARY SEWER LATERAL AND WYE CONN. SUPPORT**  
NTS S103



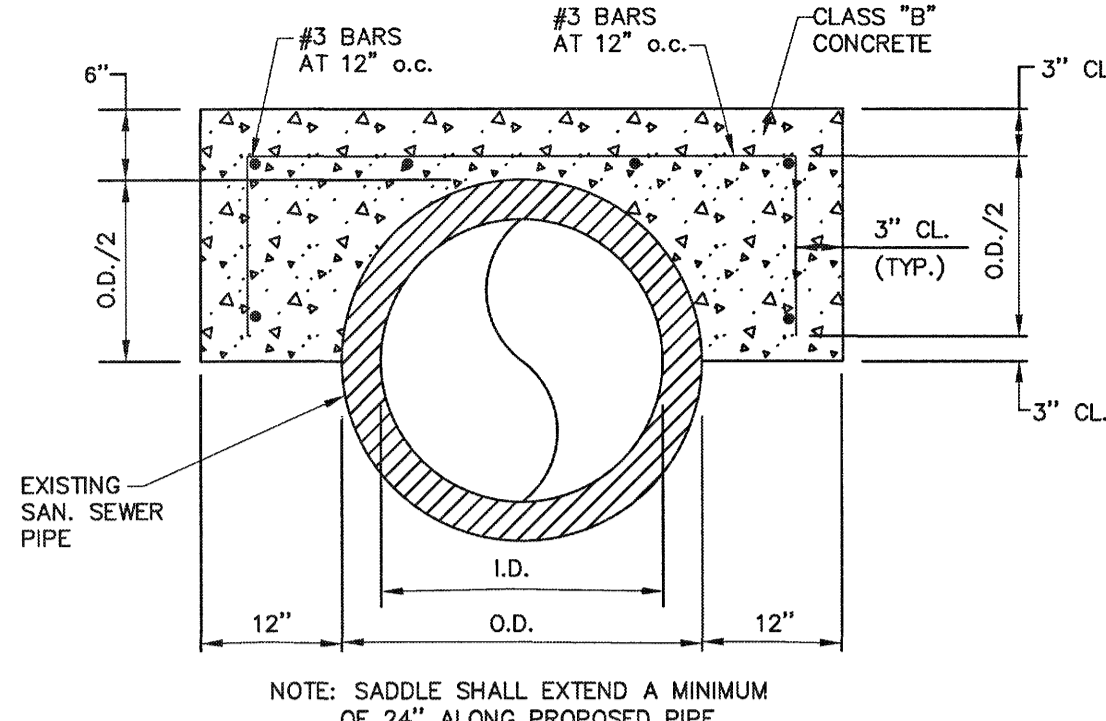
**STANDARD SERVICE CONNECTION w/ CLEANOUT**



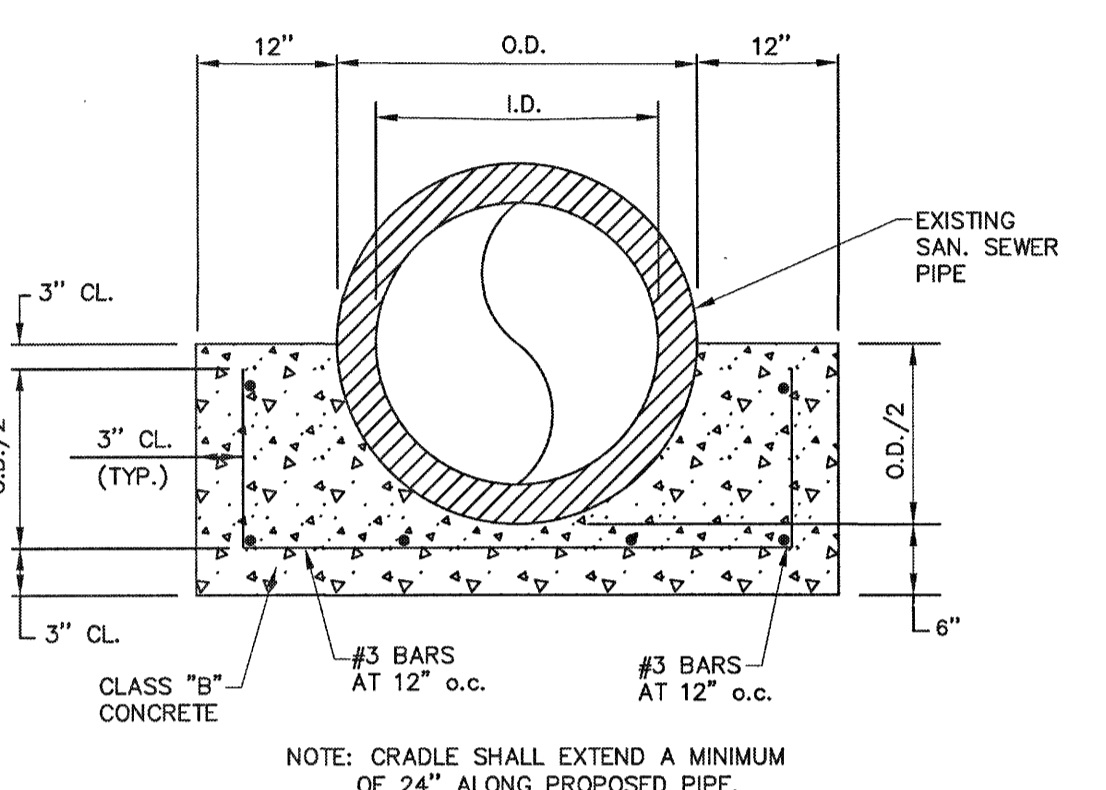
**TYPICAL WATER / SANITARY SEWER CROSSING**  
NTS S110



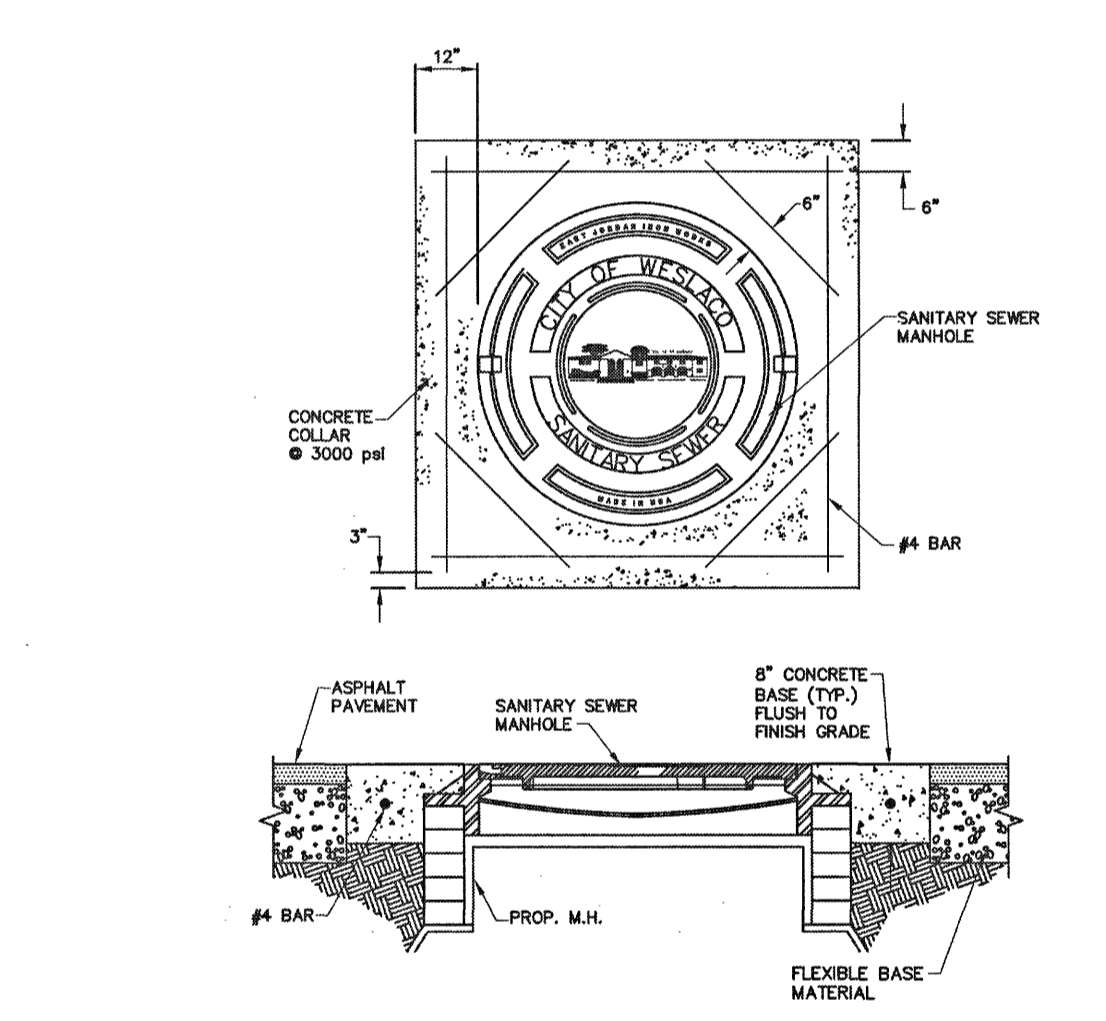
**PIPE ENCASEMENT DETAIL**  
NTS



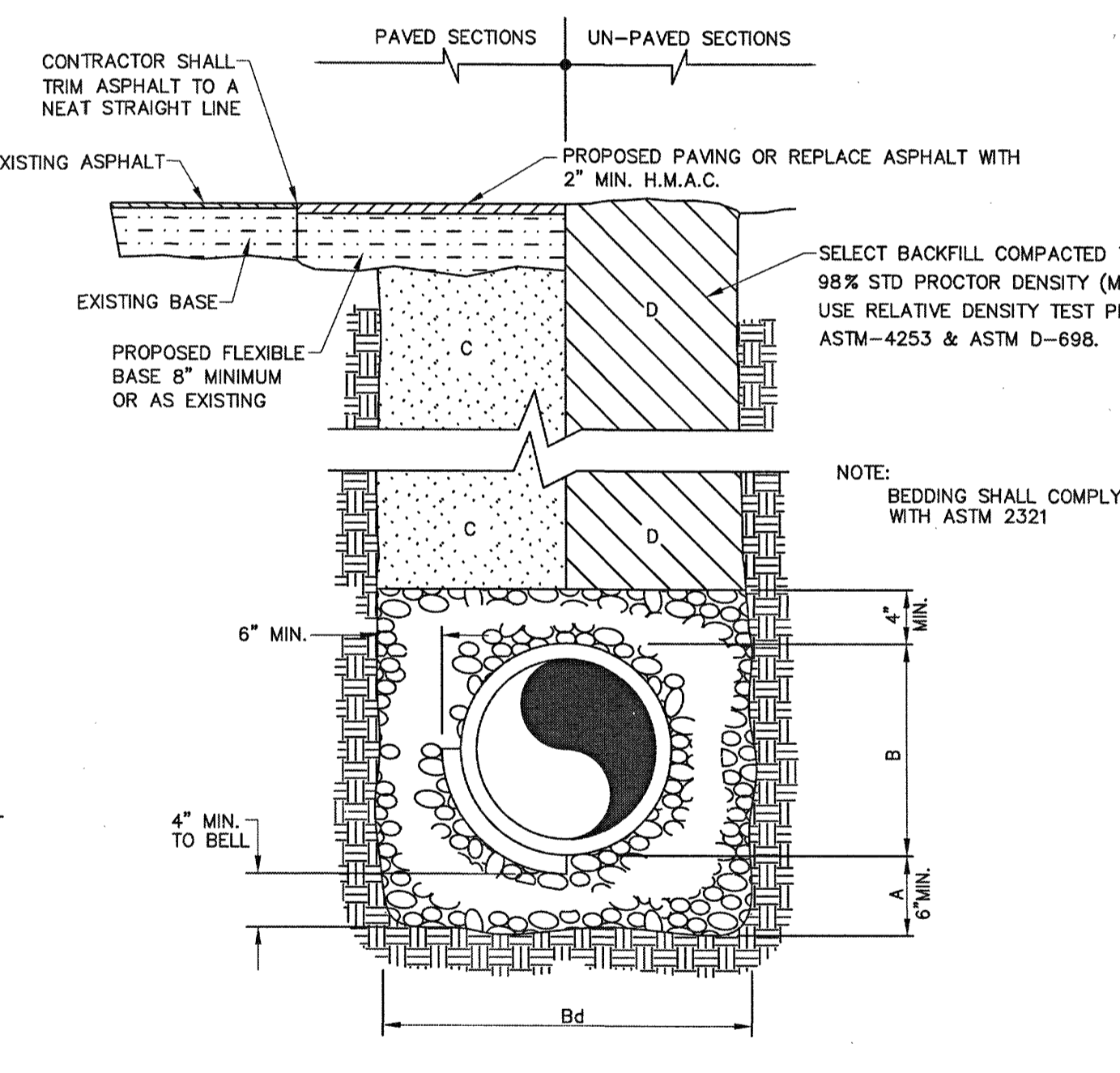
**CONCRETE SADDLE DETAIL**  
NTS W212



**CONCRETE CRADLE DETAIL**  
NTS W212



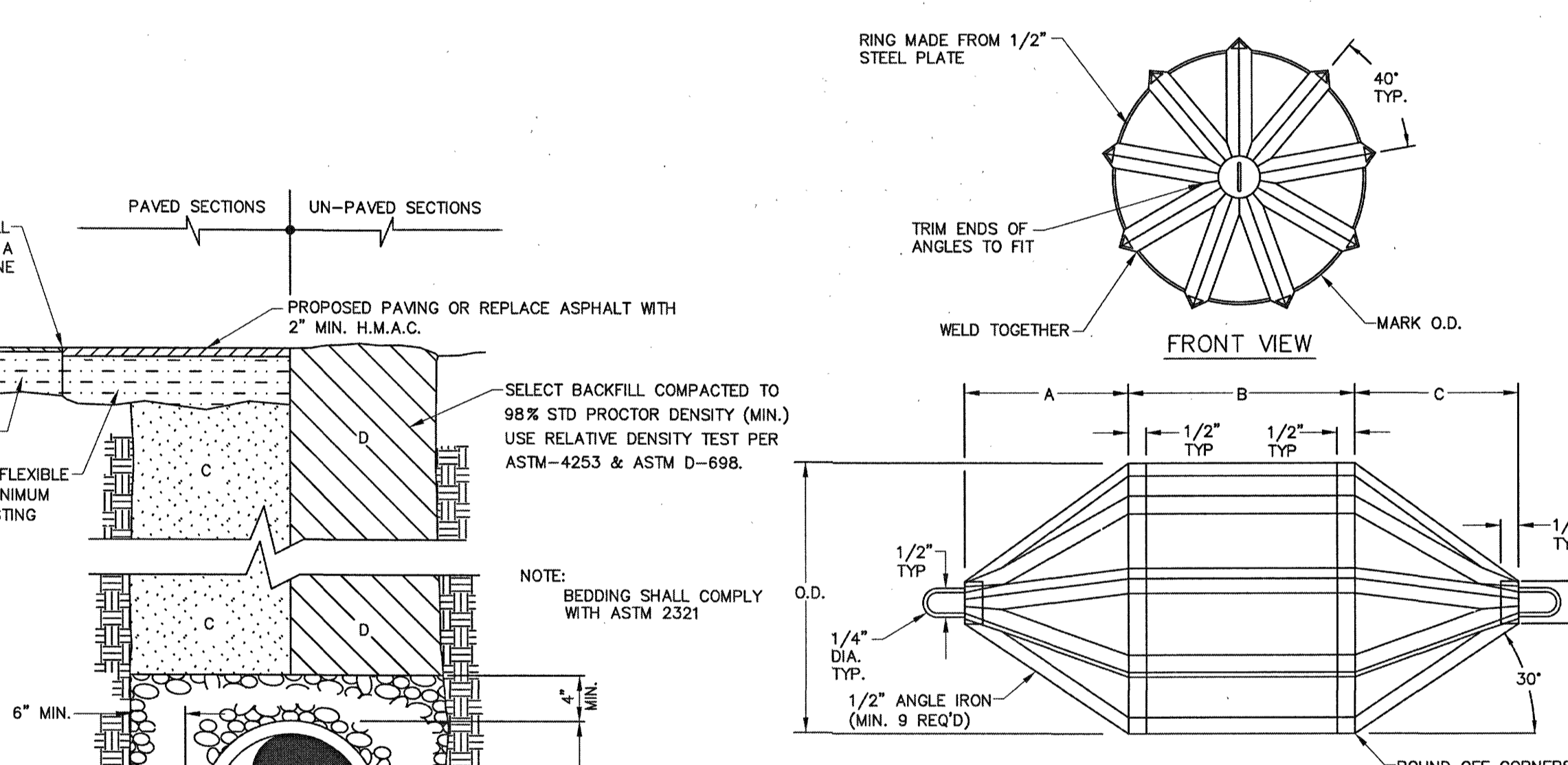
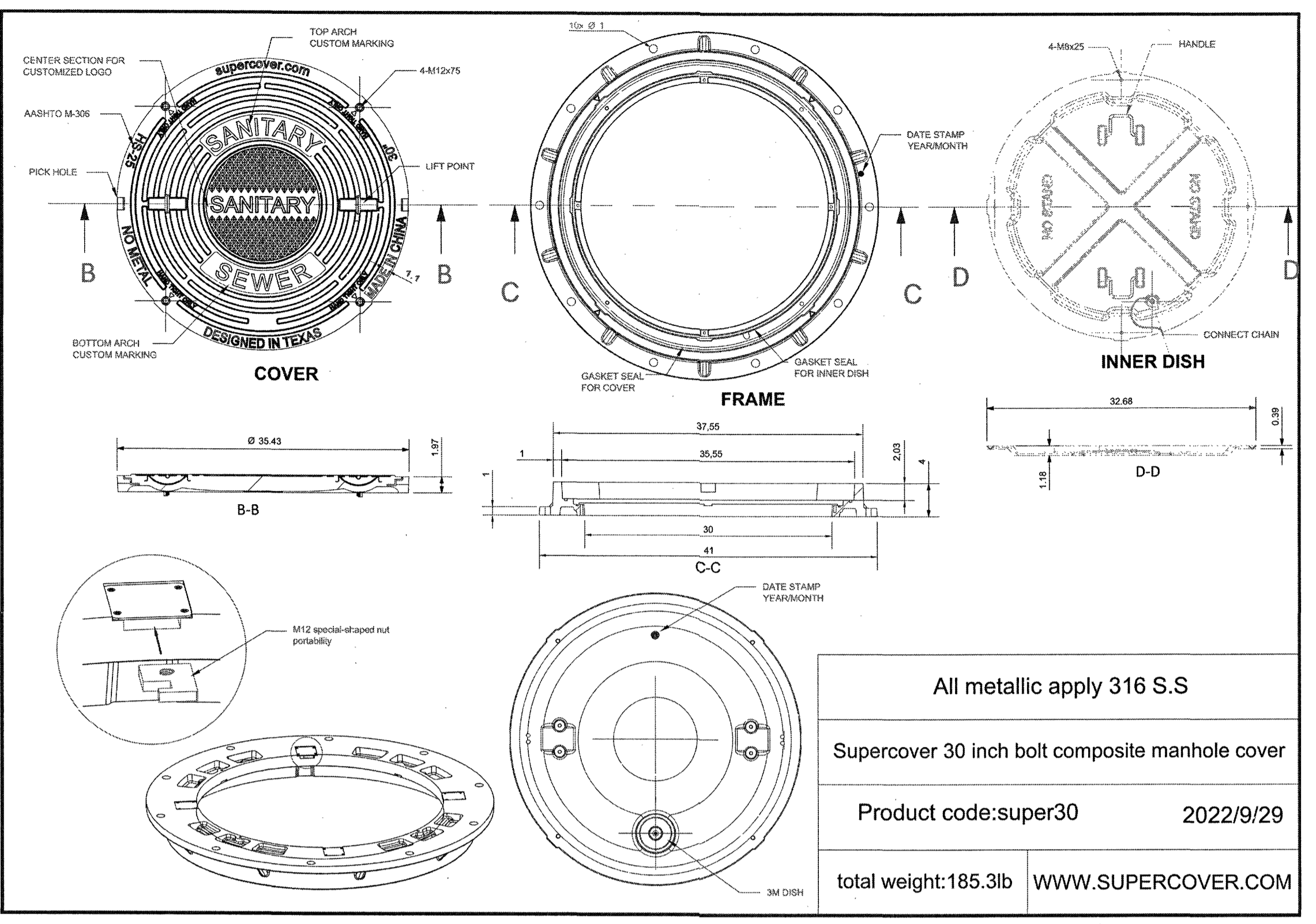
**MANHOLE CONCRETE COLLAR ON PAVEMENT DETAIL**  
NTS S109



**NOTES**

- GRAVEL BEDDING PLACED BEFORE PIPE IS LAID (MIN. THICKNESS = 6"). PIT RUN GRAVEL 3/4" MAX. SIZE.
- GRAVEL PLACED AFTER PIPE IS LAID, FROM BOTTOM OF PIPE TO 4" ABOVE THE TOP OF PIPE. PIT RUN GRAVEL 3/4" MAX. SIZE.
- ROADWAYS: SAND/CEMENT STABILIZED BACKFILL, WITH 7% PORTLAND CEMENT, COMPACTED AS PER ASTM D-4253 AND ASTM D-698.
- SELECTED EARTH BACKFILL MECHANICALLY COMPACTED TO 98% STD. PROCTOR DENSITY (12" LIFTS). FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 98% STD. PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURAL BACKFILL MATERIAL SHALL BE AS APPROVED BY THE ENGINEER.

**SANITARY SEWER BEDDING**  
NTS S104



**TESTING MANDREL CHART**

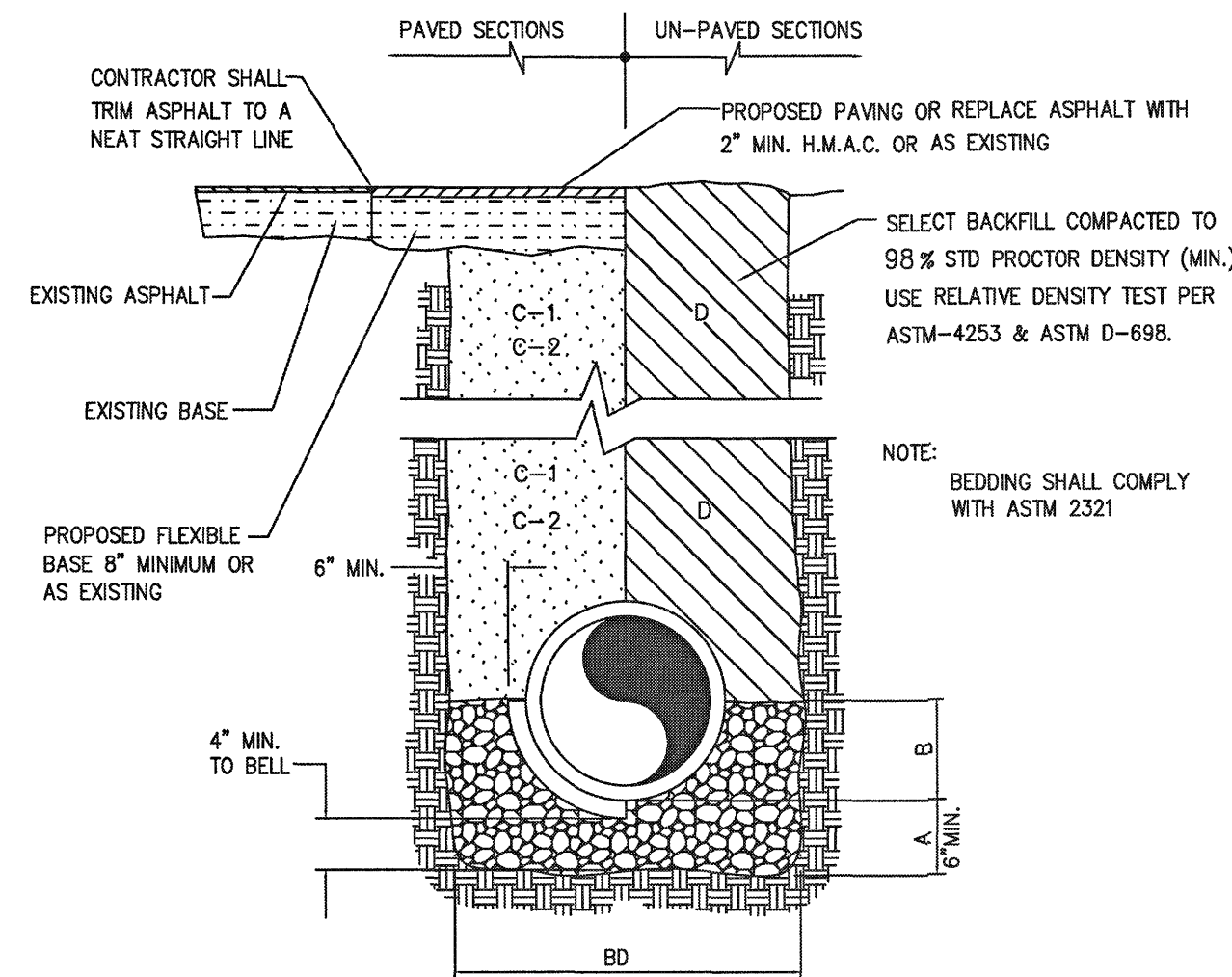
REVISIONS	230301A
PROJECT No.	OCT. 3, 2024
DATE:	G.T. & A.G.
DRAWN BY:	J.H.
CHK. BY:	

**JAVIER HINOJOSA ENGINEERING CONSULTING ENGINEERS**  
416 E. DOVE AVENUE McALLEN, TEXAS 78504  
PHONE (956) 668-1588  
TBPELS FIRM No. 1295  
javier@javierhinojosaeng.com

**STANDARD SANITARY SEWER DETAILS**  
**MONTE CIELO SUBDIVISION PHASE II**  
WESLACO, TEXAS

**SHEET 9**  
OF 12 SHEETS

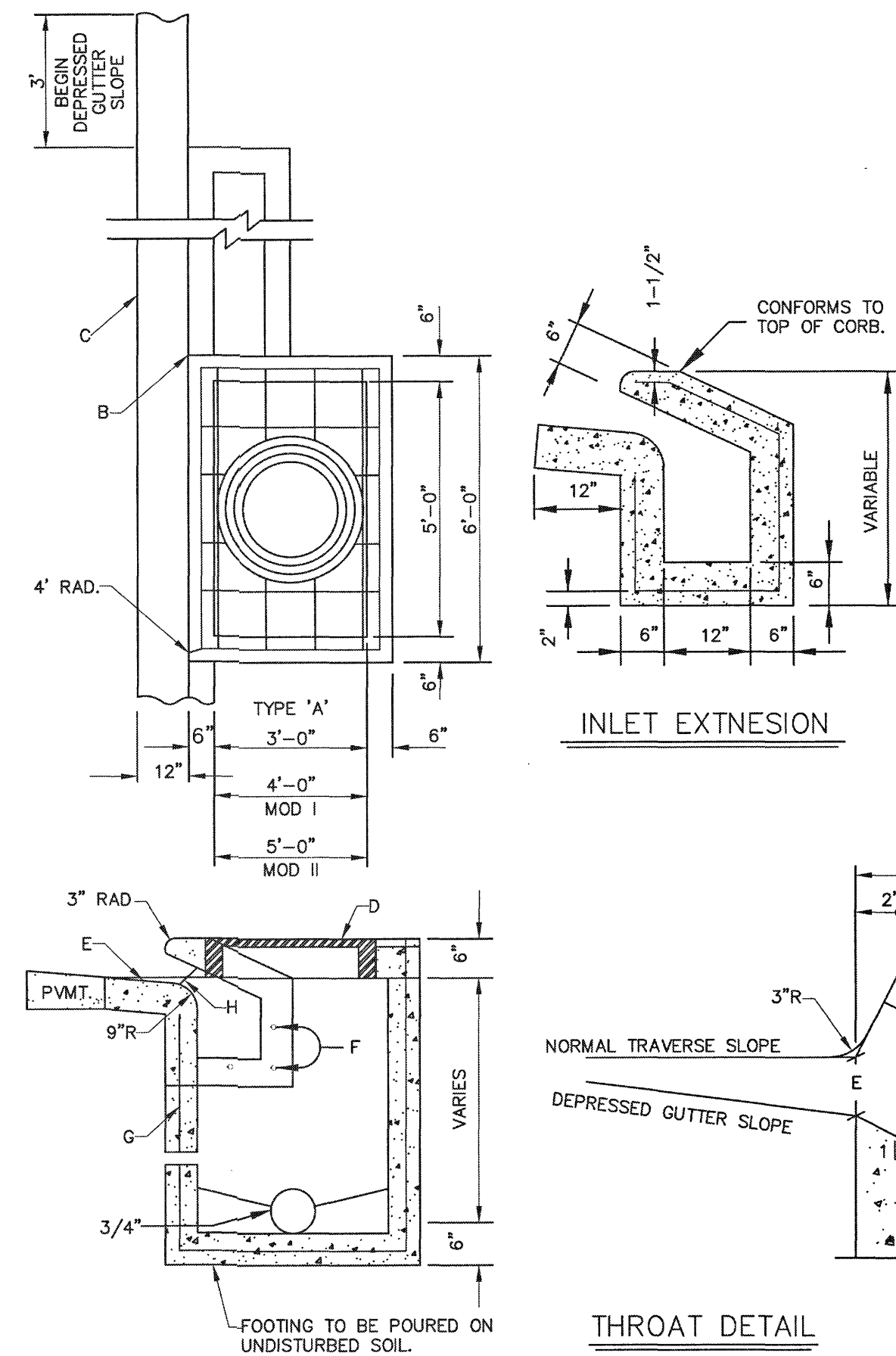
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- A. GRAVEL BEDDING PLACED BEFORE PIPE IS LAID (MIN. THICKNESS = 6"). PIT RUN GRAVEL 3/4" MAX. SIZE.
- B. AFTER PIPE IS LAID, PLACE GRAVEL FROM BOTTOM TO SPRING LINE OF PIPE. PIT RUN GRAVEL 3/4" MAX. SIZE.
- B4. TRENCH WIDTHS SHALL BE EQUAL TO PIPE BELL O.D. + 12" OR IN ACCORDANCE WITH ASTM 2321.
- C-1. CITY STREETS, PARKING AREA, DRIVEWAYS. SELECTED BACKFILL SHALL BE PLACED IN 8" LIFTS MECHANICALLY COMPACTED TO 98% MODIFIED PROCTOR DENSITY.
- C-2. STATE MAINTAINED ROADWAYS: SAND/CEMENT STABILIZED BACKFILL WITH 7% PORTLAND CEMENT, COMPACTED AS PER ASTM D-4253 AND ASTM D-698.
- D. SELECTED EARTH BACKFILL MECHANICALLY COMPACTED TO 98% STD. PROCTOR DENSITY (12" LIFTS). FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 98% STD. PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURAL BACKFILL MATERIAL SHALL BE AS APPROVED BY THE ENGINEER.

**STORM SEWER LINE BEDDING DETAIL**

NTS



**CURB INLET DETAIL**

NTS

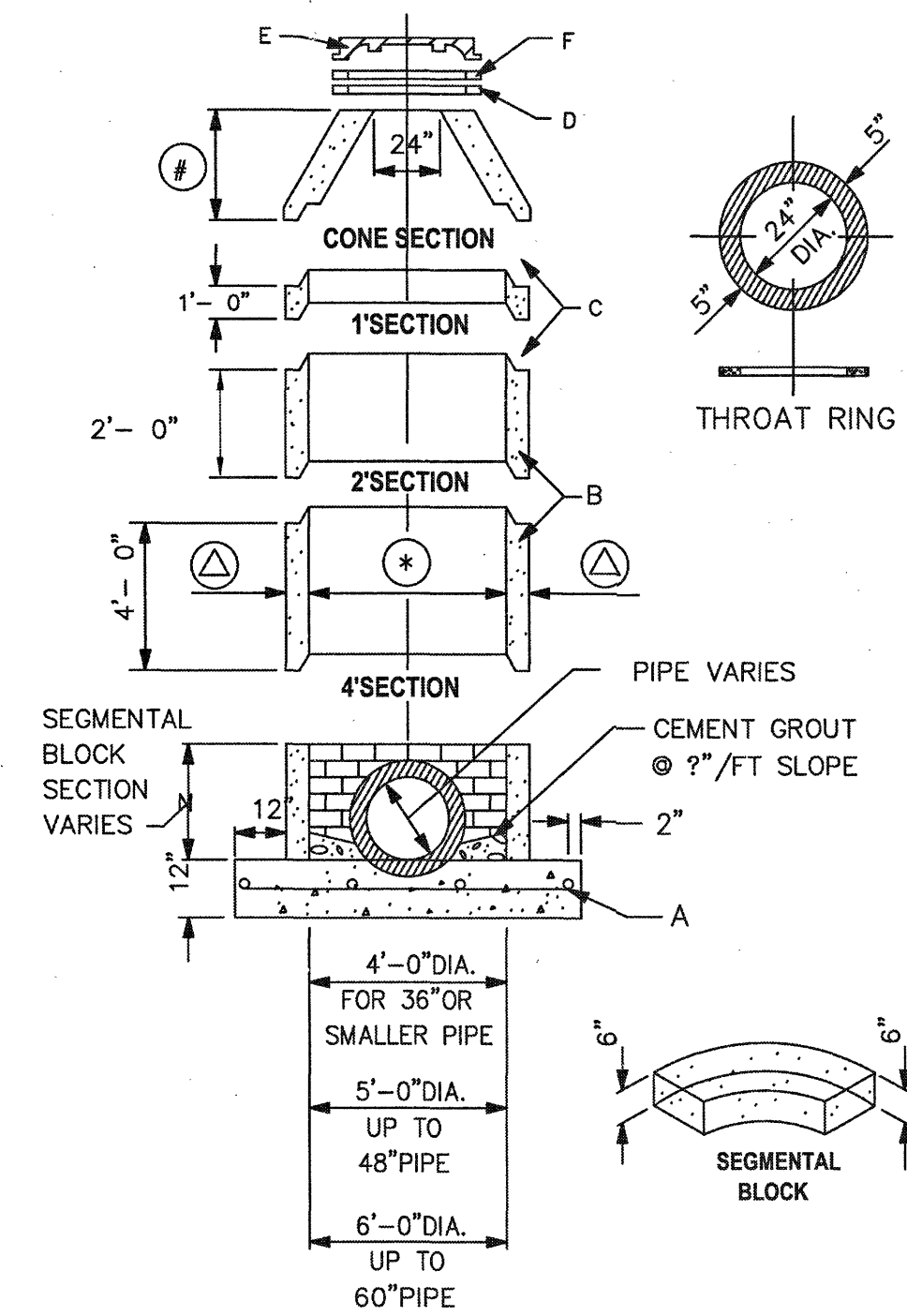
D304

**CONSTRUCTION NOTES**

- No. 4 VERTICAL REINF. HOOK 15" OR 6" AS REQUIRED AT TOP.
- 6" x 6" CONCRETE SUPPORT USED WHEN EXTENSION BOX CALLED FOR.
- REGULAR CURB & GUTTER SECTION.
- MANHOLE RING & COVER SHALL BE ALAMO 862-22 OR EQUAL.
- DEPRESS 4" BELOW NORMAL GUTTER.
- DOWEL BARS
- ALL REINF. NO. 4 BARS 12" O.C. EACH WAY.
- 7" CLEAR OPENINGS

**GENERAL NOTES**

- SLOPE BOTTOM OF INLET 1/2" PER FT. TOWARD INLET.
- EXTENSION TO INLET TO BE MADE IN INCREMENTS OF 3'-0" OR 6'-0" ONLY.
- INLET EXTENSION MUST BE APPROVED BY CITY ENGINEER PRIOR TO CONSTRUCTION.
- TRANSITION NORMAL GUTTER TO INLET FLOW SLOPE APPROX. 3'
- INLET TOP SHALL BE A PRE-CAST SECTION EITHER PART OF PRE-CAST SYSTEM OR PRE-CAST ON THE SITE BY CONTRACTOR.
- CONCRETE TO BE 4,000 P.S.I. @ 28 DAYS MIN.



**GENERAL NOTES:**

- SEGMENTAL BLOCK MAY BE USED ON LARGE DIA. PIPES IN LIEU OF BREAKING OUT LARGE HOLES IN PRE-CAST SECTION.
- SEGMENTAL BLOCK SECTION & PRE-CAST SECTION MAY BE ALTERNATED.
- PRECAST SECTIONS MAY BE PLACED IN ANY ORDER.
- FOOTING TO BE POURED ON UNDISTURBED SOIL.
- 1/2" OF MORTAR TO BE PLACED ON INSIDE AND OUTSIDE OF SEGMENTAL MANHOLES.

**CONSTRUCTION NOTES:**

- # 4 BARS AT 12" O.C. EACH WAY.
- PRE-CAST SECTIONS.
- MORTAR JOINTS.
- MIN. OF 3 AND MAX. OF 5 THROAT RING FOR FUTURE ADJUSTMENTS.
- HEAVY STREET CAST IRON MANHOLE RING AND COVER "VULCAN VM-42 OR EQUAL" RING: 3" HIGH, CLEAR OPENING 24" COVER: 26" DIA. 2" THICK. F. MORTAR JOINT BETWEEN RINGS.

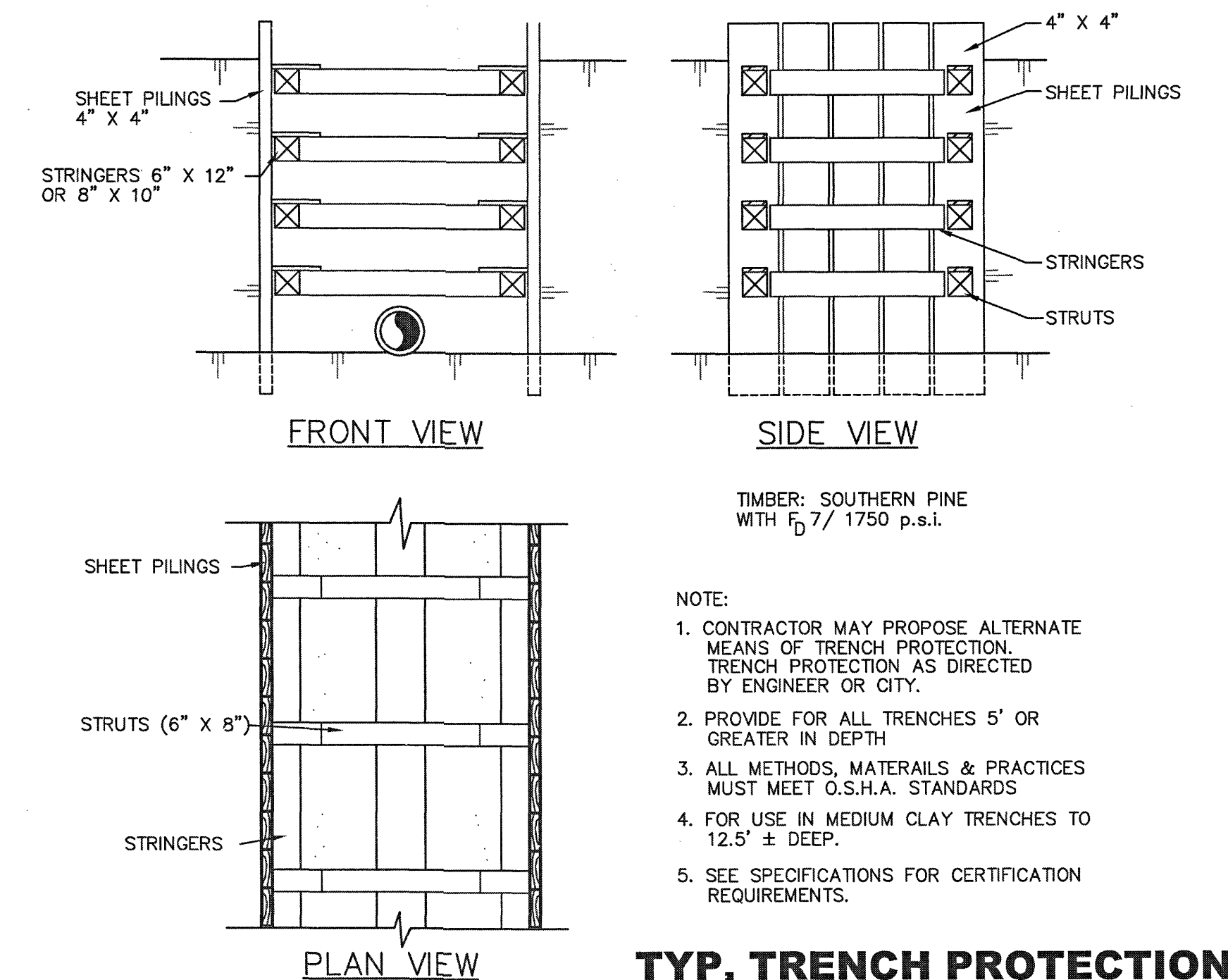
**DENOTES**

(*)	4'-0" DIA.	5'-0" DIA.	6'-0" DIA.
(Δ)	5"	6"	7"
(⊕)	2'-10"	3'-4"	3'-10"

**TYPICAL STORM SEWER MANHOLE**

NTS

D304

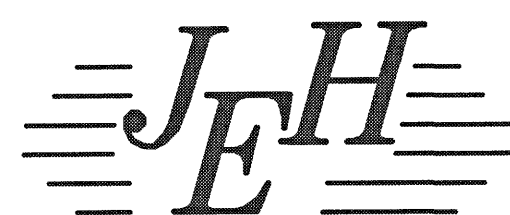


NOTE:  
TIMBER: SOUTHERN PINE WITH F<sub>b</sub> 7/1750 p.s.i.

- NOTE:**
- CONTRACTOR MAY PROPOSE ALTERNATE MEANS OF TRENCH PROTECTION. TRENCH PROTECTION AS DIRECTED BY ENGINEER OR CITY.
  - PROVIDE FOR ALL TRENCHES 5' OR GREATER IN DEPTH.
  - ALL METHODS, MATERIALS & PRACTICES MUST MEET O.S.H.A. STANDARDS.
  - FOR USE IN MEDIUM CLAY TRENCHES TO 12.5' ± DEEP.
  - SEE SPECIFICATIONS FOR CERTIFICATION REQUIREMENTS.

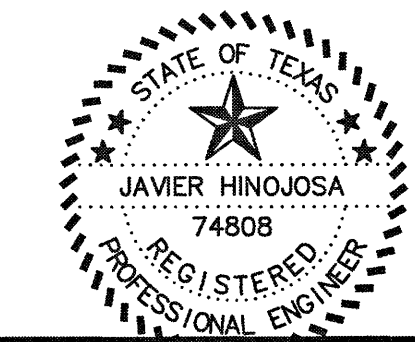
**TYP. TRENCH PROTECTION**

REVISIONS	230301A
	PROJECT No. OCT. 3, 2024
	DATE: G.T. & A.G.
	DRAWN BY J.H.
	CHK. BY



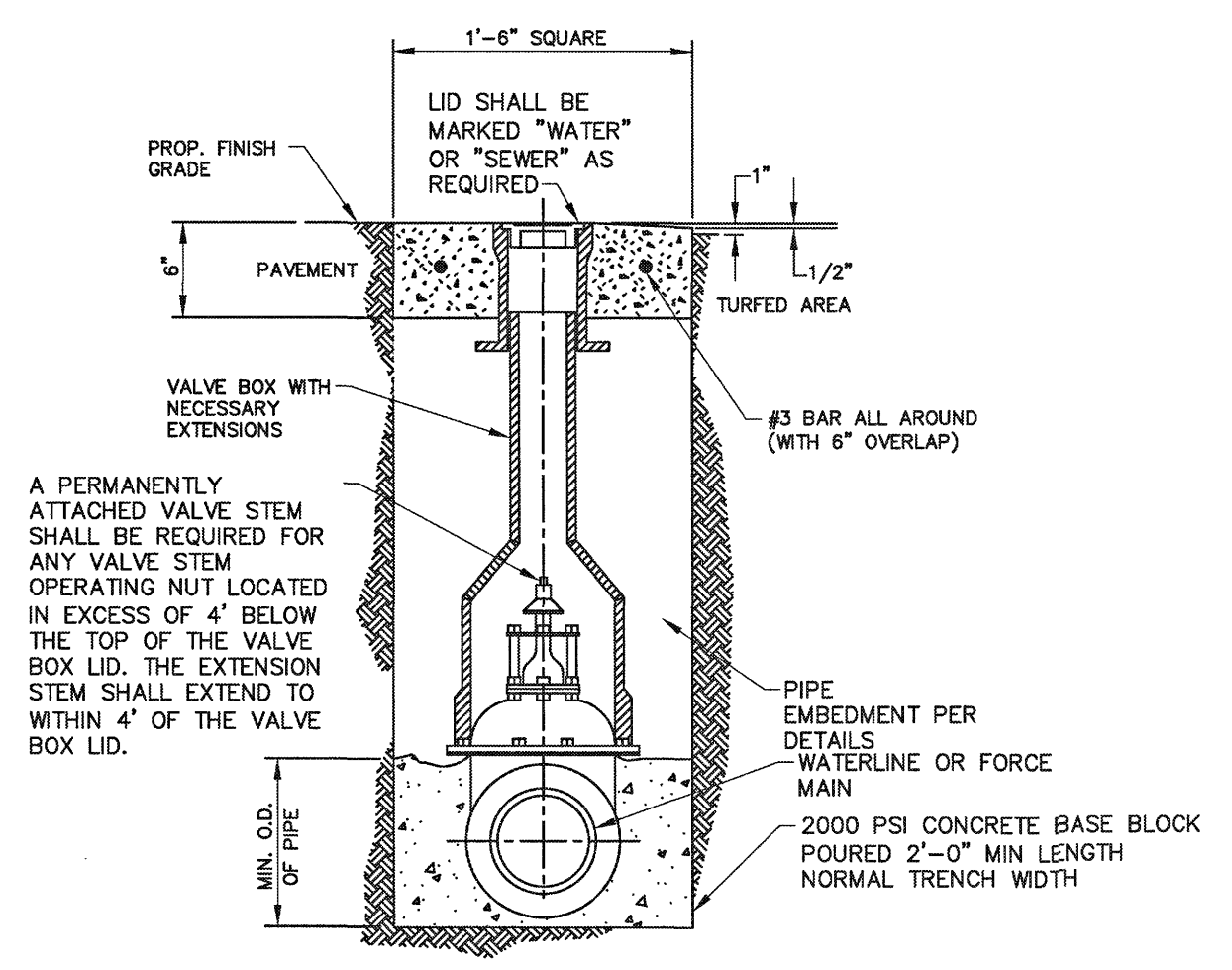
**JAVIER HINOJOSA ENGINEERING CONSULTING ENGINEERS**  
416 E. DOVE AVENUE McALLEN, TEXAS 78504  
PHONE (956) 668-1588  
TBPELS FIRM No. 1295  
javier@javierhinojosaeng.com

**STANDARD STORM DRAINAGE DETAILS**  
**MONTE CIELO SUBDIVISION PHASE II**  
WESLACO, TEXAS



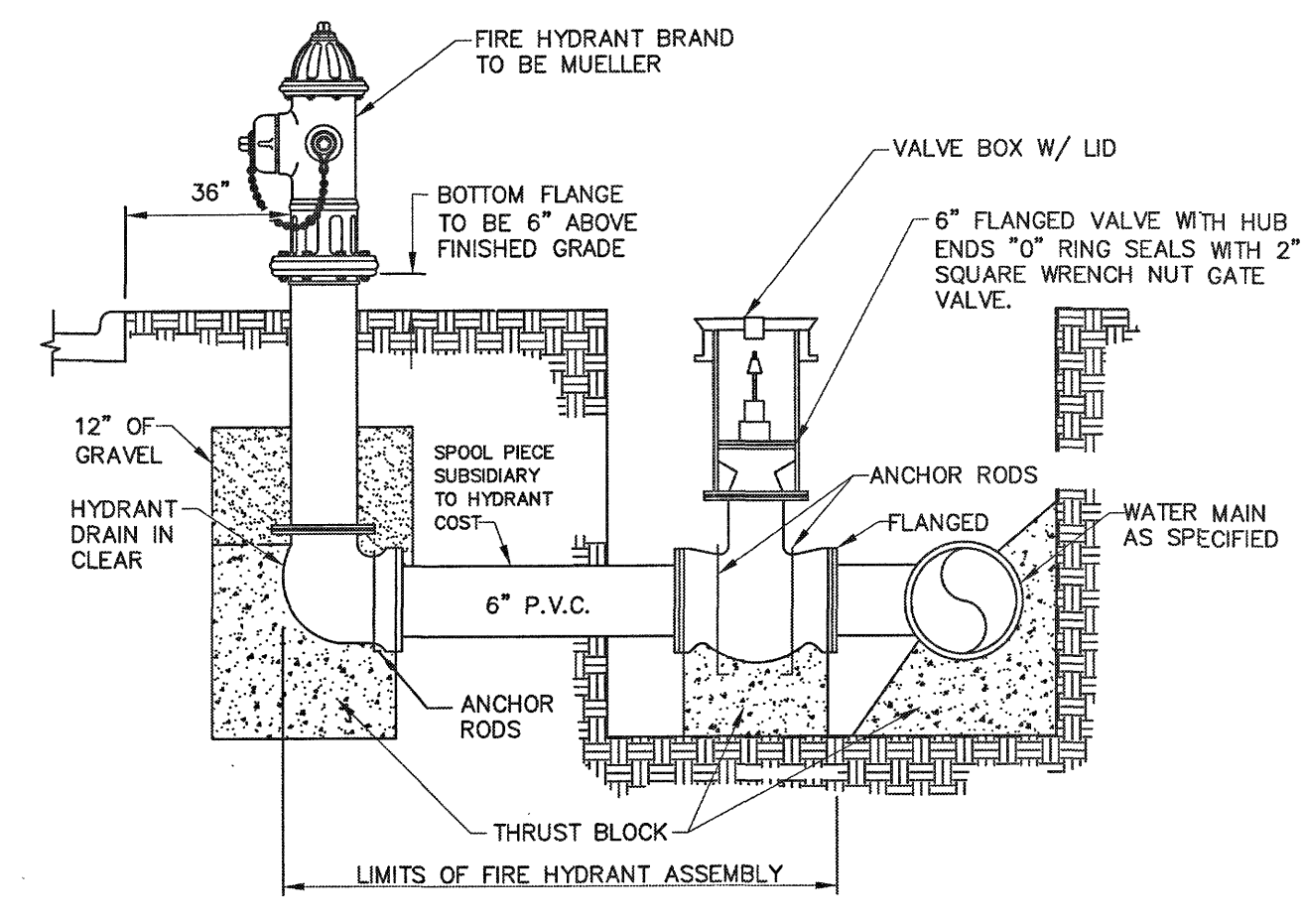
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**SHEET 10**  
OF 12 SHEETS  
230301A



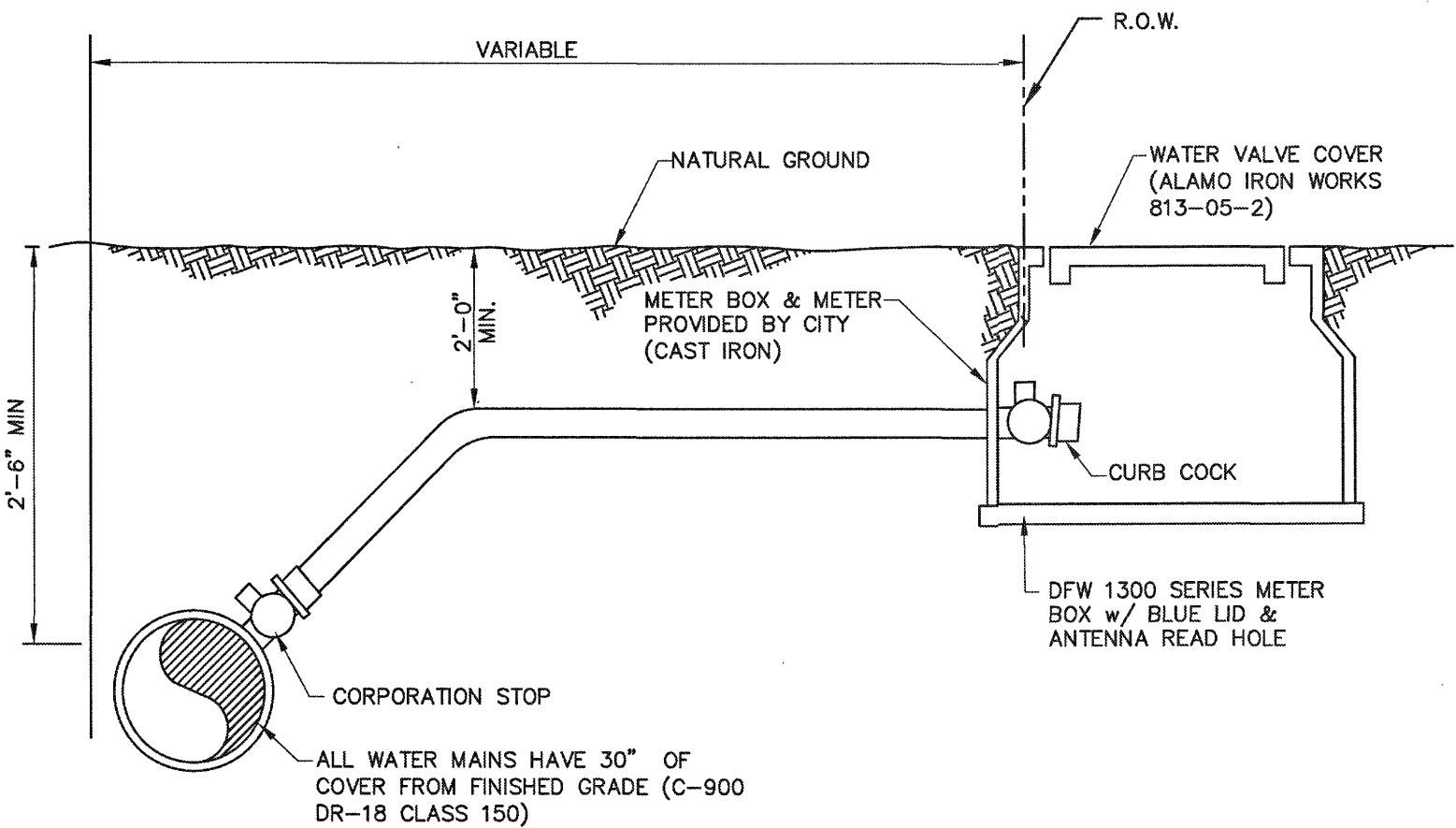
**GATE VALVE AND BOX**  
NTS W205

(ALL FIRE HYDRANTS AND VALVES SHALL BE MANUFACTURED BY MUELLER)

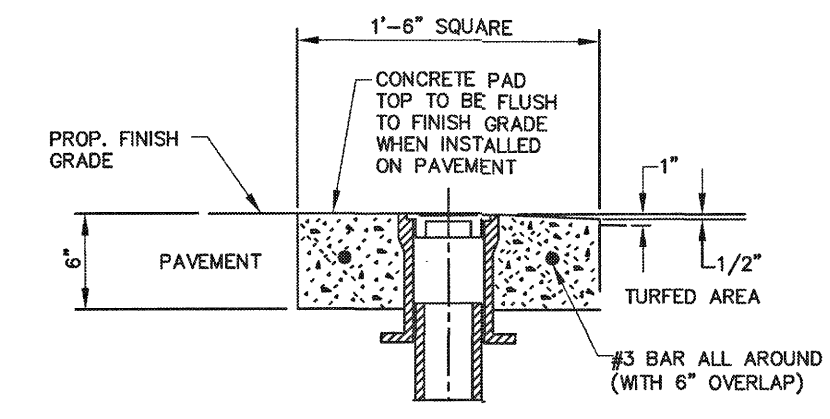


**FIRE HYDRANT ASSEMBLY AND BOX DETAIL**  
NTS

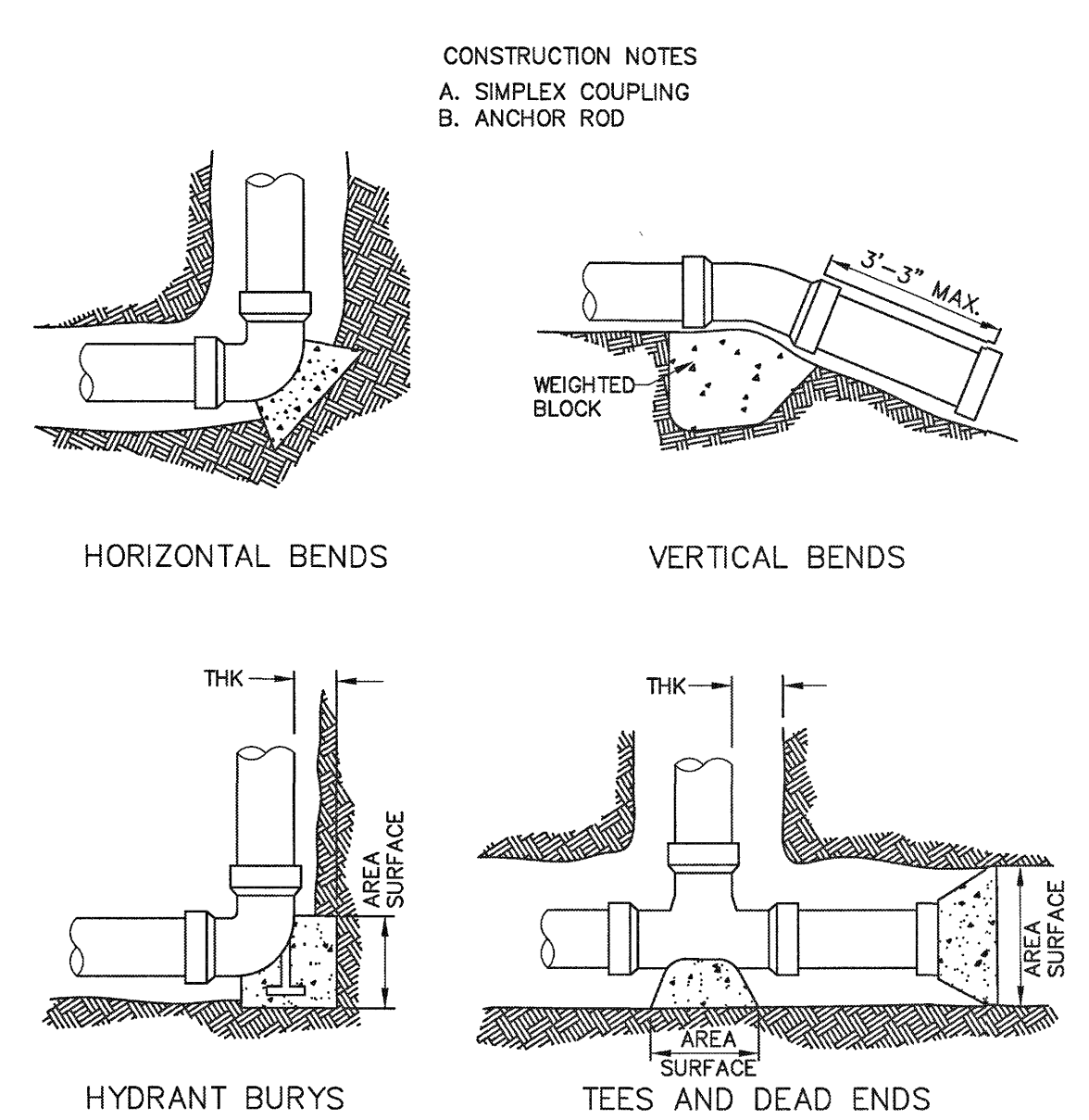
NOTE: SEE FIRE MARSHAL FOR EXACT LOCATION AND HEIGHT OF BOLLARDS.



**TYPICAL SERVICE CONNECTION**  
NTS W202

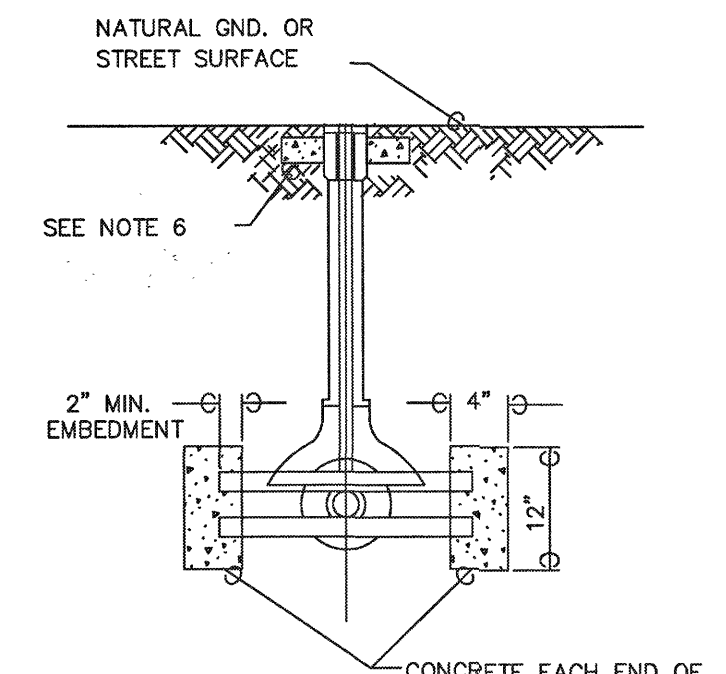
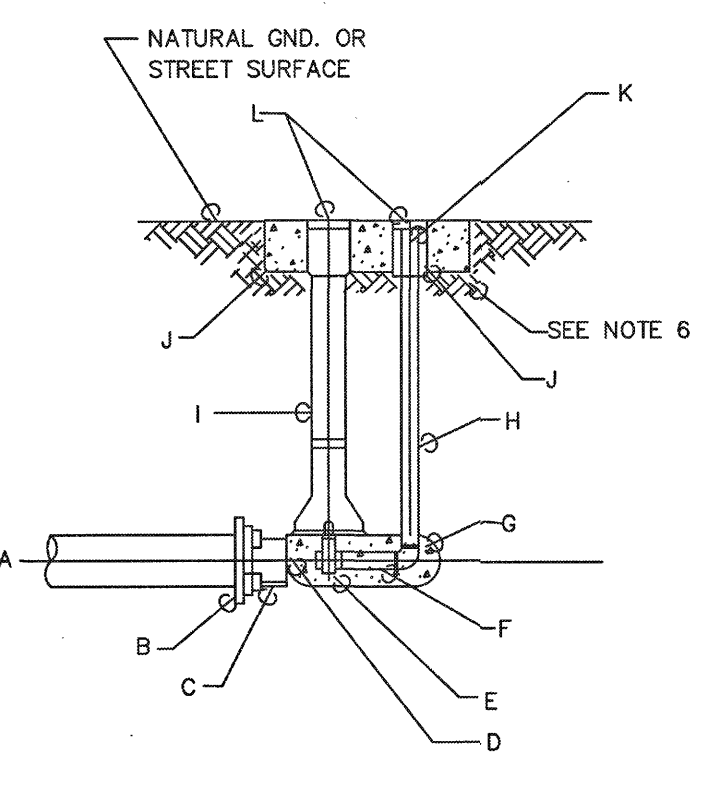


**GATE VALVE CONCRETE COLLAR**  
NTS



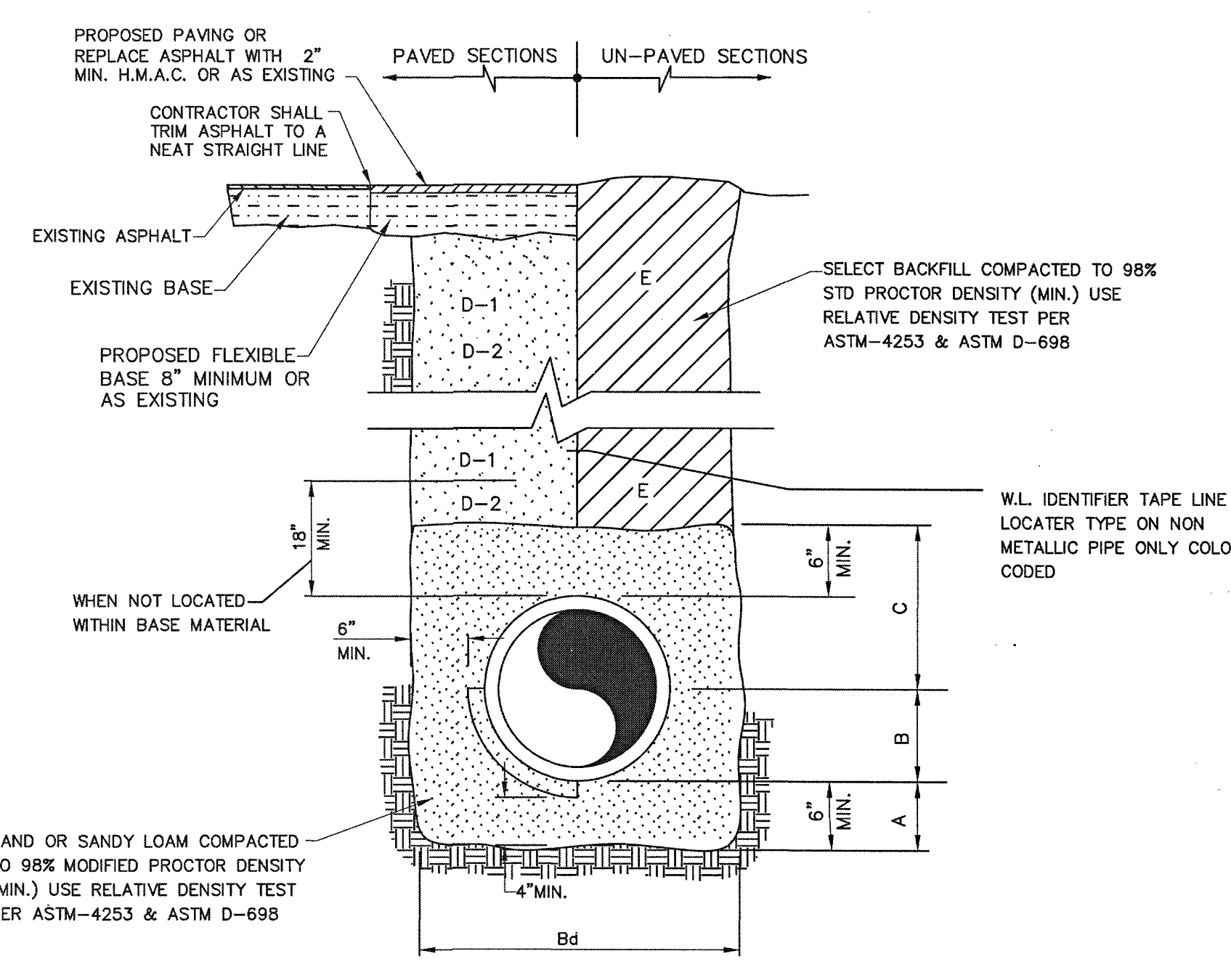
THRUST BLOCK SIZE				
DIAMETER OF PIPE INCHES	HORIZONTAL BEND SURFACE AREA SQ. FEET	THICKNESS INCHES	WEIGHT AT VERTICAL BENDS-LBS.	
<b>22-1/2\" BENDS</b>				
6 OR LESS	2	8	1700	
8	3	8	3,000	
10	3.5	12	4,500	
12	4	14	6,600	
14	5	18	9,000	
16	6	18	11,800	
<b>45\" BENDS</b>				
6 OR LESS	4	12	3,200	
8	5	14	5,800	
10	6	18	9,000	
12	7	18	13,000	
14	8	24	17,000	
16	11.5	24	23,200	
<b>90\" BENDS</b>				
6 OR LESS	6	12	6,000	
8	8	15	10,700	
10	10	18	16,700	
12	12	18	24,000	
14	18	24	32,600	
16	21	24	42,700	
<b>TEES &amp; DEAD ENDS</b>				
6 OR LESS	3	12		
8	4	15		
10	6	18		
12	8.5	18		
14	11.5	24		
16	15	24		

**TYPICAL THRUST BLOCK DETAILS**  
W211



BEAM SCHEDULE			
SIZE	TYPE	AND NO. OF MAIN BEAM	BEAM
2"	2\" STEEL PIPE	2	
8"	3\" STEEL PIPE	2	
12"	5\" 10.0#	2	
16"	6\" 17.25#	2	
20"	8\" 18.4#	2	
24"	10\" 25.4#	2	
30"	12\" 35.0#	2	
36"	15\" 50.0#	2	

**BLOW-OFF INSTALLATION**  
NTS



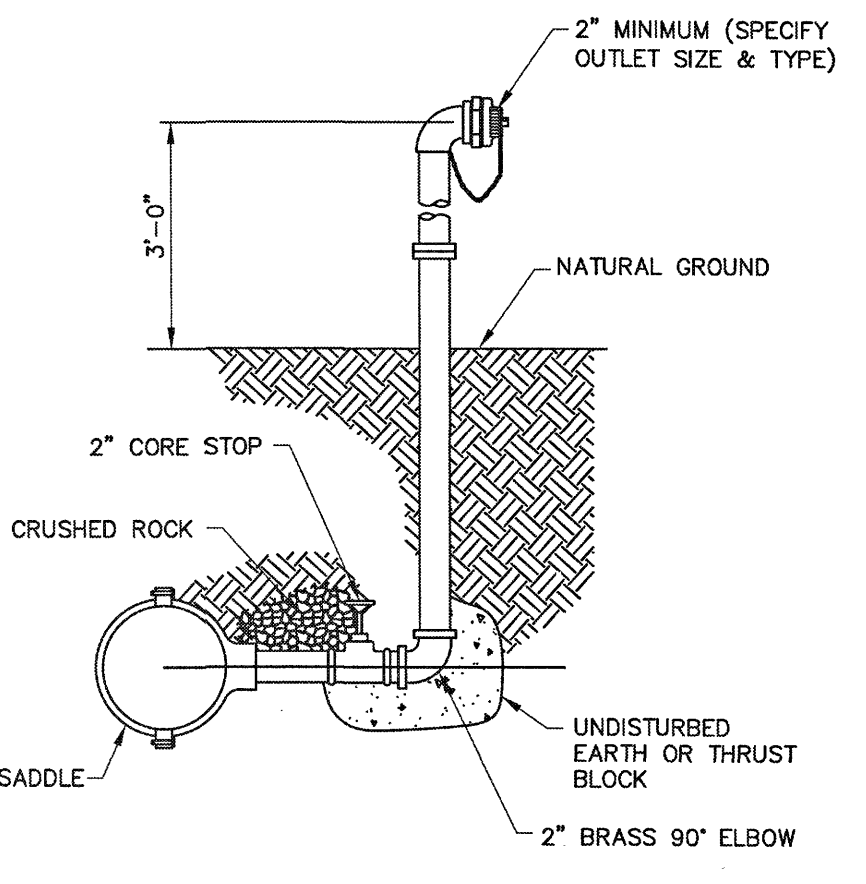
- A. SAND OR SANDY LOAM BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS= 6")
- B. SAND OR SANDY LOAM BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4\" LIFTS, HAND TAMPED) B<sub>d</sub> TRENCH WIDTHS SHALL BE PIPE O.D. + 12\" OR IN ACCORDANCE WITH ASTM 2321 FOR PVC PIPE.
- C. SAND OR SANDY LOAM BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6\" ABOVE TOP OF PIPE. (6\" LIFTS, HAND TAMPED)
- D-1. (CITY STREETS, PARKING AREA, SELECT EXCAVATED BACKFILL MATERIAL COMPACTED TO 98% SPD. (8\" LIFTS, MECHANICAL COMPACTION)
- D-2. (STATE MAINTAINED ROADWAY) COMPACTED SAND/CEMENT STABILIZED BACKFILL WITH 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM D-698.
- E. SELECT EARTH BACKFILL COMPACTED TO 98% SPD. (12\" LIFTS, MECHANICAL COMPACTION) FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 98% STD. PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6\". STRUCTURE BACKFILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED SUBSTITUTE.

**WATER LINE BEDDING**  
NTS W218

- GENERAL NOTES:**
1. ALL DEAD-ENDS ON NEW WATER LINES SHALL BE EQUIPPED WITH A SUITABLE BLOW-OFF FACILITY, OR AS DIRECTED BY THE ENGINEER
  2. EMBED ALL C.I. FITTINGS IN SAND
  3. BEAM SCHEDULE SHALL BE USED FOR END CAPS AND PLUGS, OMITTING BLOW-OFF FITTINGS. (SEE SHEET 2)
  4. BEAMS SHALL EXTEND BEYOND TRENCH WALLS.
  5. ALL CONCRETE TO HAVE A MIN. 28 DAYS COMPRESSIVE STRENGTH OF 3,000 P.S.I.
  6. MIN. 95% COMPACTION AROUND INSTALLATION

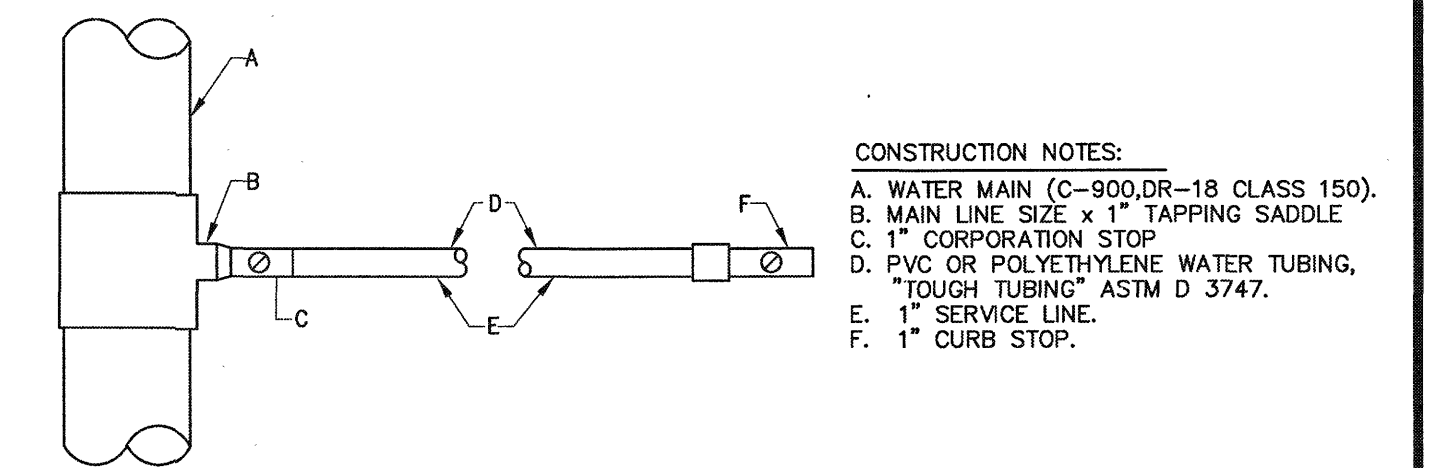
- CONSTRUCTION NOTES:**
- A. 4\" OR LARGER MAIN
  - B. AS REQUIRED x2\" TAPPED CAP
  - C. BEAM
  - D. 2\" C I NIPPLE, THR. (CUT AS REQUIRED TO CLEAR VALVE OF BLOCKING BEAMS)
  - E. 2\" GATE VALVE, THR.
  - F. 2\" x 2\" C I NIPPLE THR
  - G. 2\"-90\" C I ELL. THR.
  - H. 2\" C I PIPE, THR.
  - I. STANDARD BOX ASSEMBLY
  - J. 6\" VALVE BOX & LID ONLY
  - K. 2\" COUPLING, THR. (2\" MIN. FROM SURFACE)
  - L. CAP NOT TO BE GLUED OR TREATED

- GENERAL NOTES:**
1. ALL DEAD-ENDS ON NEW WATER LINES SHALL BE EQUIPPED WITH A SUITABLE BLOW-OFF FACILITY, OR AS DIRECTED BY THE ENGINEER.
  2. EMBED ALL C.I. FITTINGS IN SAND.
  3. BEAM SCHEDULE SHALL BE USED FOR END CAPS AND PLUGS, OMITTING BLOW-OFF FITTINGS.
  4. BEAMS SHALL EXTEND BEYOND TRENCH WALLS.
  5. ALL CONCRETE TO HAVE A MIN. OF 28 DAYS COMPRESSIVE STRENGTH 3,000 P.S.I..
  6. MIN. OF 95% COMPACTION AROUND INSTALLATION.



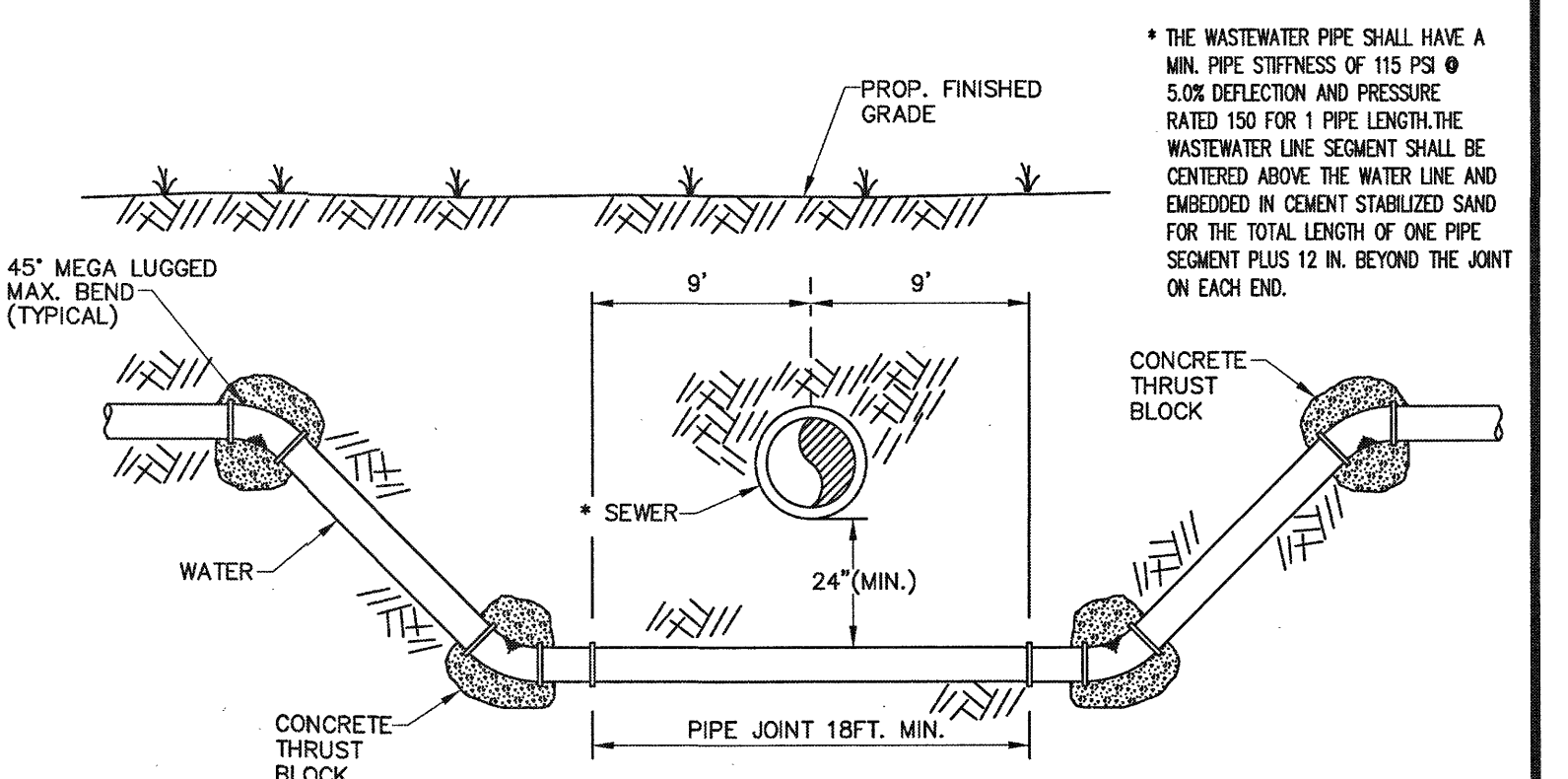
**NOTE:**  
POST HYDRANT SHALL BE NON-FREEZING, SELF DRAINING TYPE WITH A 5\" IN. DEPTH OF BURY. FLUSH VALVE WILL BE FURNISHED WITH A 2\" PIP INLET, A NON-TURNING OPERATING ROD AND SHALL OPEN TO THE LEFT. ALL WORKING PARTS SHALL BE BRONZE TO BRONZE DESIGN AND BE SERVICEABLE FROM ABOVE GRADE WITH NO DIGGING. THE OUTLET SHALL ALSO BE BRONZE AND BE 2 1/2\" NST. FLUSH VALVES SHALL BE LOCKABLE TO PREVENT UNAUTHORIZED USE. OS MANUFACTURED BY KUPFERLE FOUNDRY CO. ST. LOUIS, MO, OR APPROVED EQUAL.

**FLUSH VALVE DETAIL**  
NTS

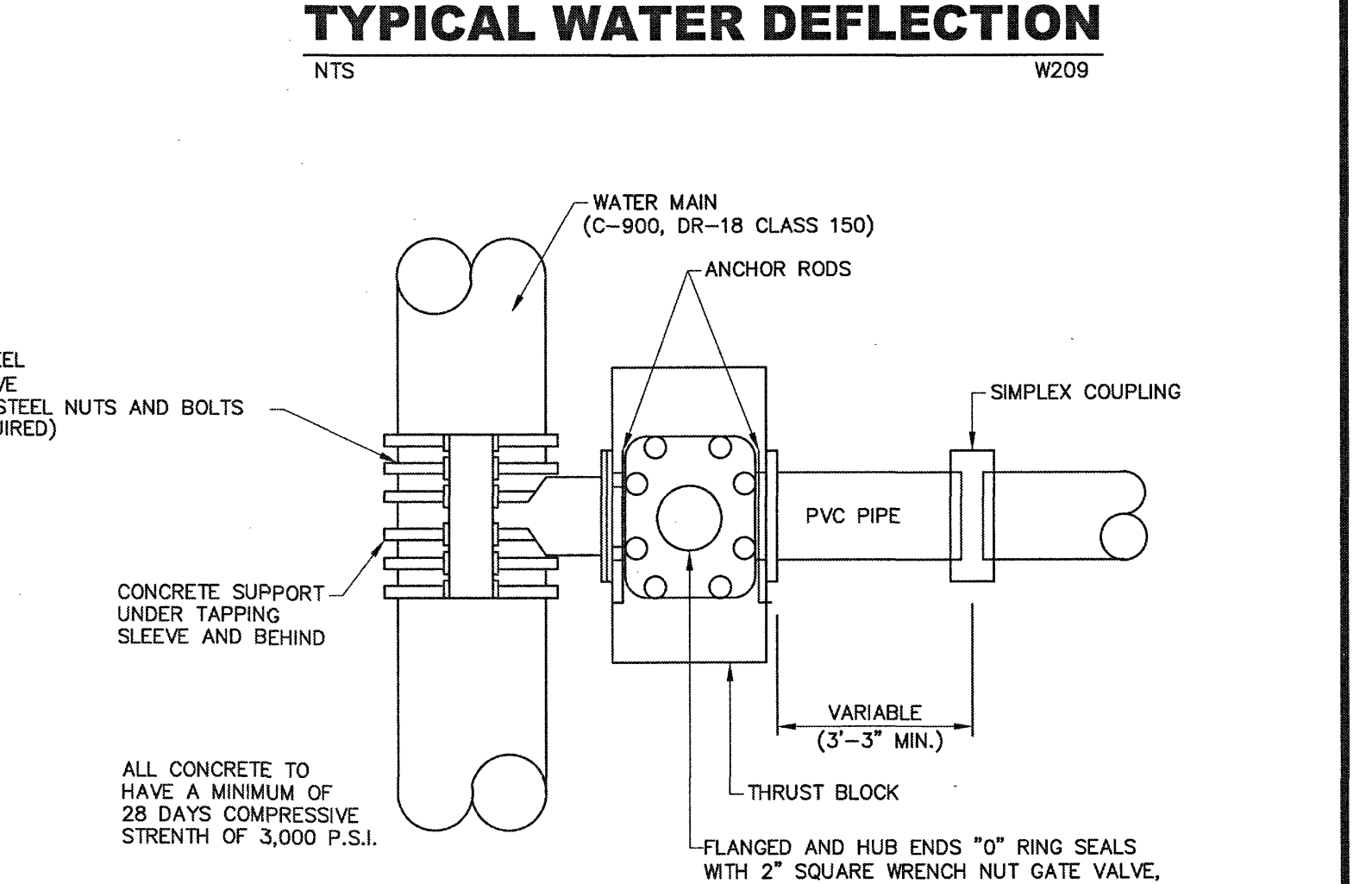


**TYPICAL SINGLE SERVICE WATER CONNECTION**  
NTS ALL WATER SERVICE CROSSING STREET SHALL BE ENCASED W202

- CONSTRUCTION NOTES:**
- A. WATER MAIN (C-900, DR-18 CLASS 150)
  - B. MAIN LINE SIZE x 1\" TAPPING SADDLE
  - C. 1\" CORPORATION STOP
  - D. PVC OR POLYETHYLENE WATER TUBING, TOUGH TUBING ASTM D 3747.
  - E. 1\" SERVICE LINE.
  - F. 1\" CURB STOP.

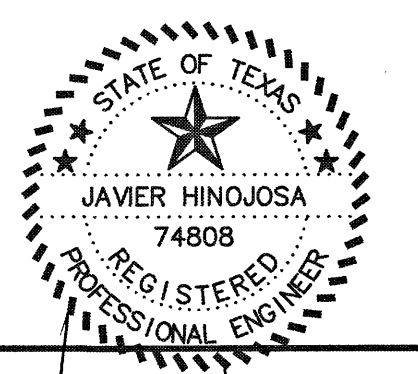


**TYPICAL WATER DEFLECTION**  
NTS W209



**NOTE:**  
ALL CONCRETE TO HAVE A MINIMUM OF 28 DAYS COMPRESSIVE STRENGTH OF 3,000 P.S.I.

**TAPPING SLEEVES & VALVE INSTALLATION**  
NTS W207



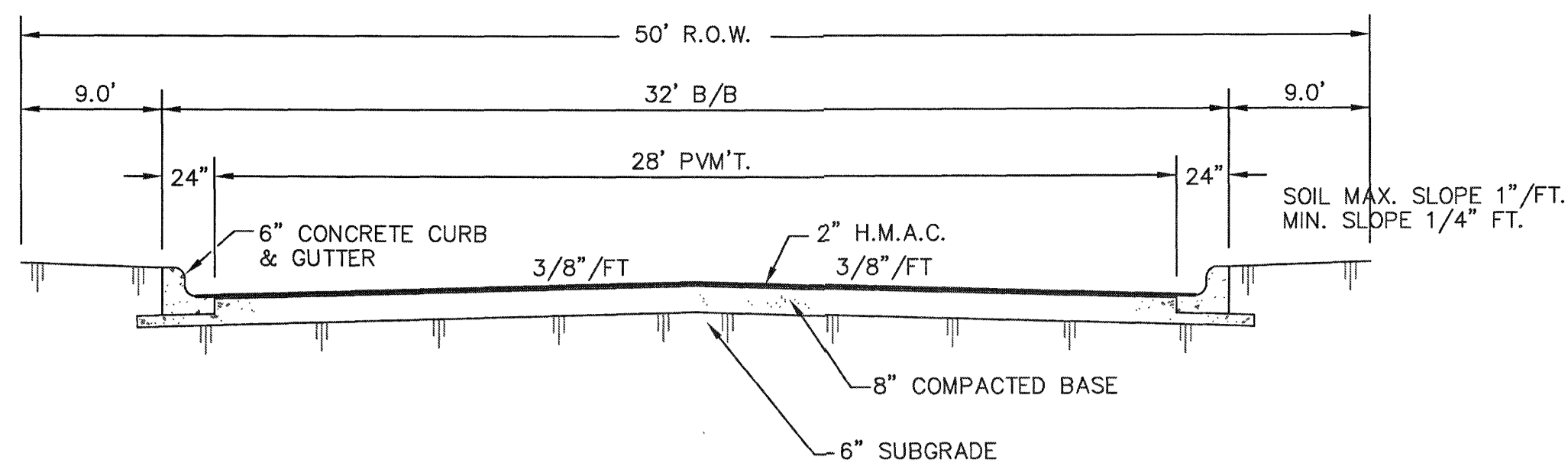
REVISIONS	

**JEH**

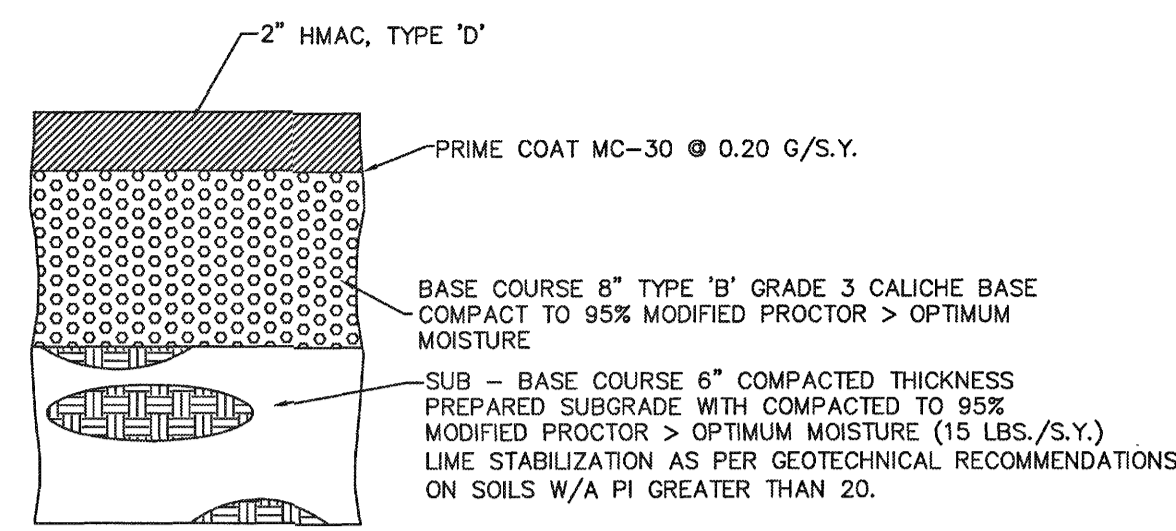
**JAVIER HINOJOSA ENGINEERING CONSULTING ENGINEERS**  
416 E. DOVE AVENUE McALLEN, TEXAS 78504  
PHONE (956) 668-1588  
TBPELS FIRM No. 1295  
javier@javierhinojosaeng.com

STANDARD WATER DETAILS  
MONTE CIELO SUBDIVISION PHASE II  
WESLACO, TEXAS

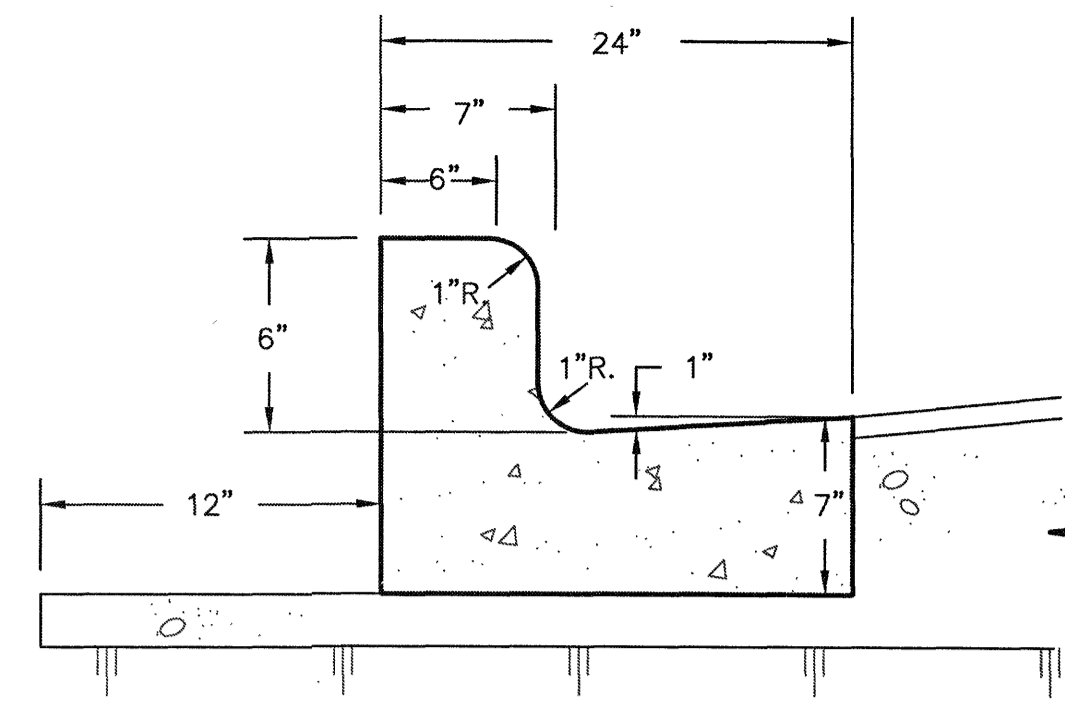
SHEET **11** OF 12 SHEETS  
230301A



STD STREET CROSS SECTIONS

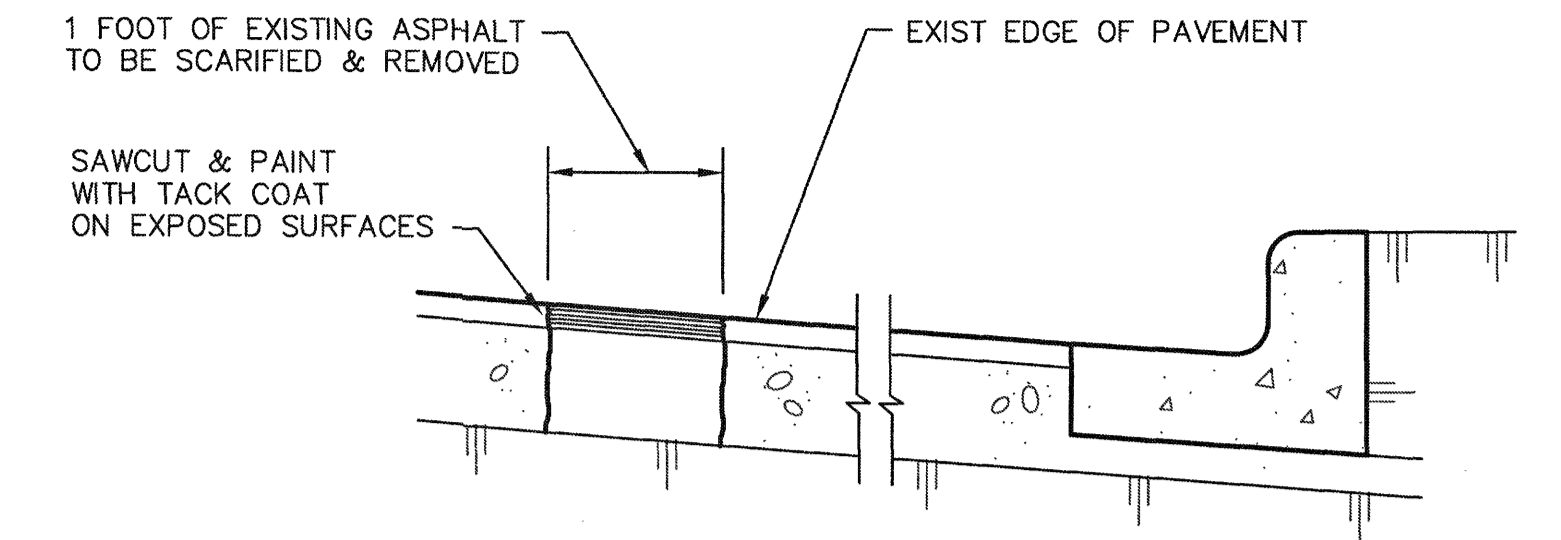


STD PAVEMENT SECTION

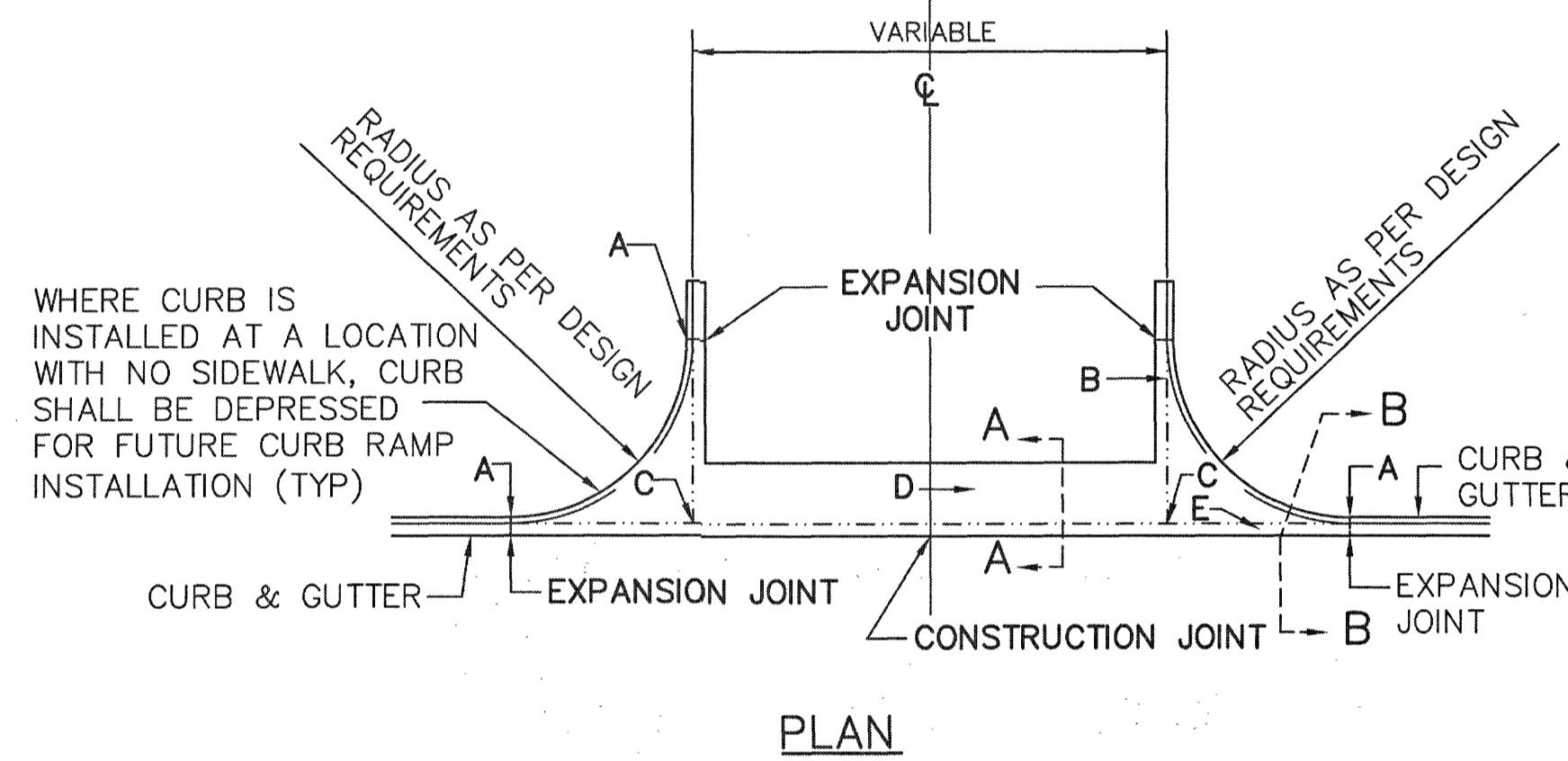
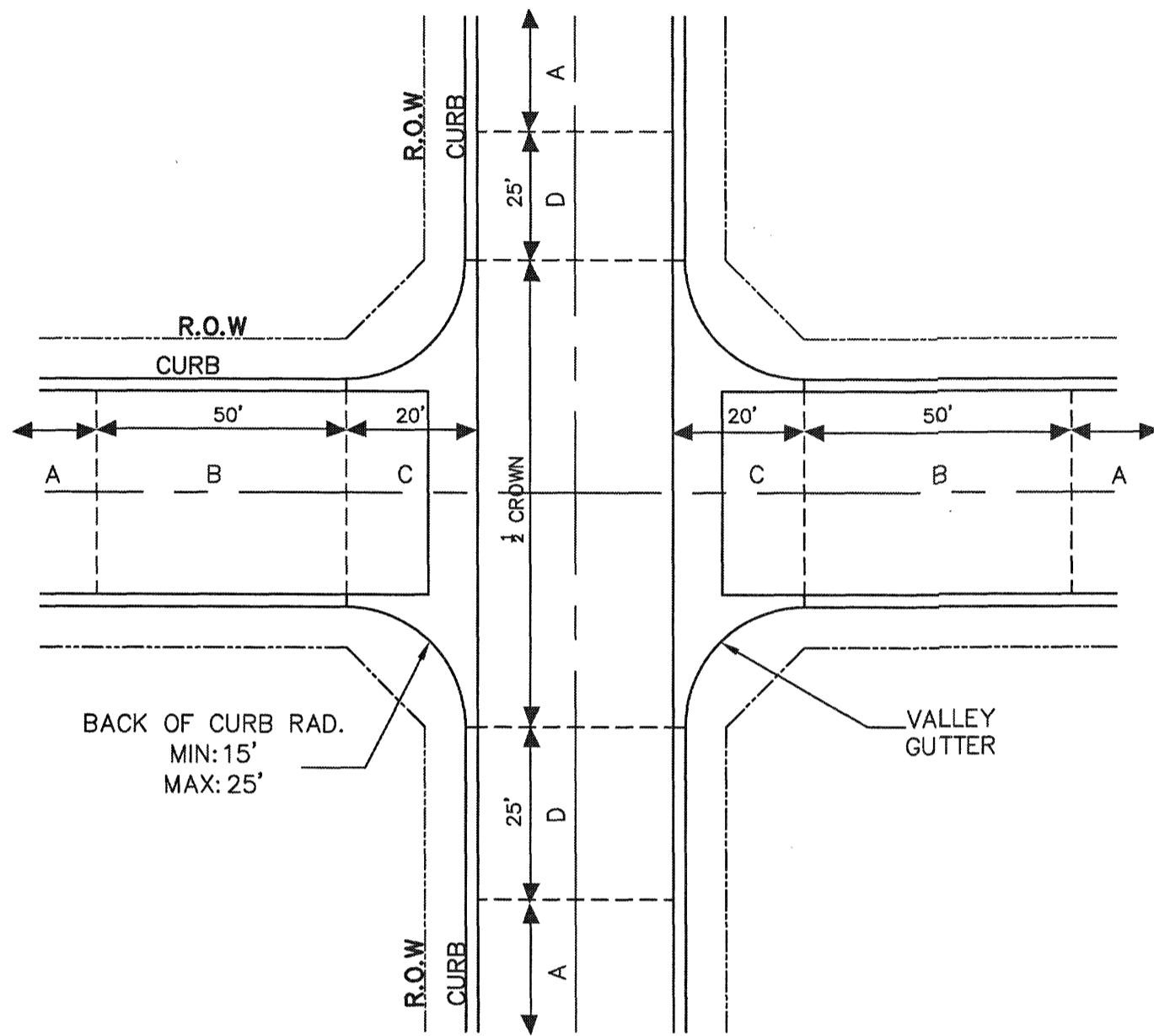


CONCRETE CURB & GUTTER

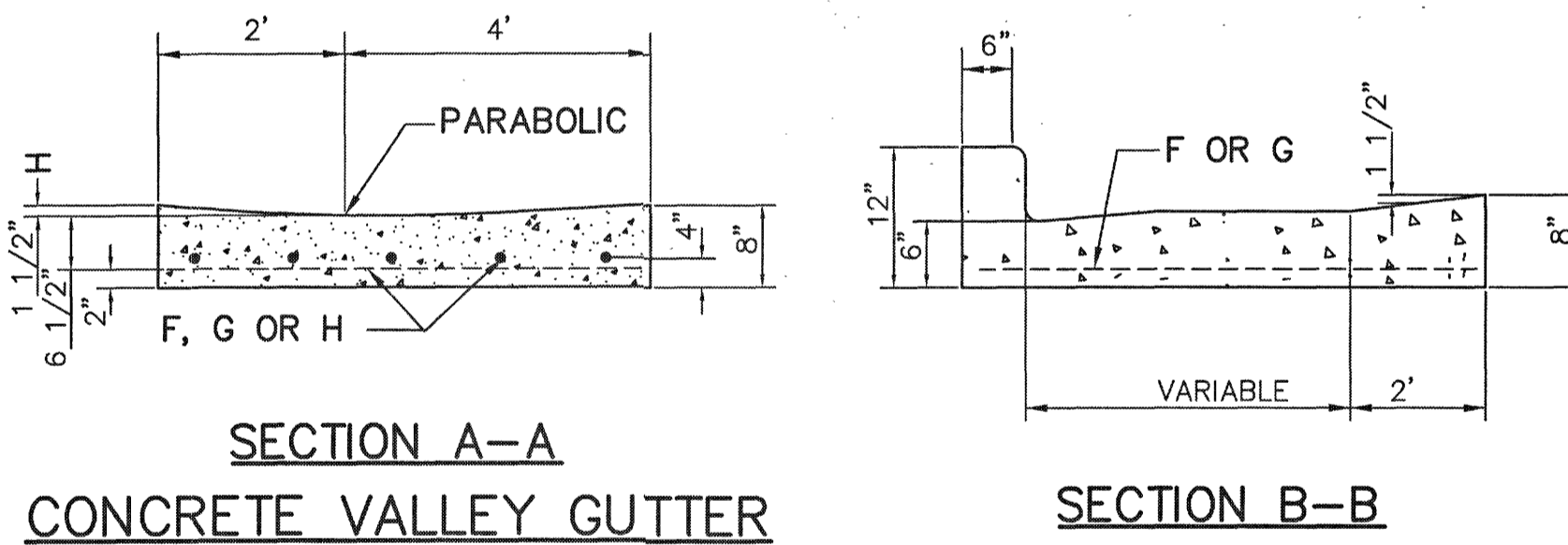
THE CONTRACTOR SHALL STAMP FACE OF CURB WITH "W" FOR WATER AND "SS" FOR SEWER INDICATING SERVICE LOCATION.



NEW ASPHALT MEETING EXISTING PAVEMENT

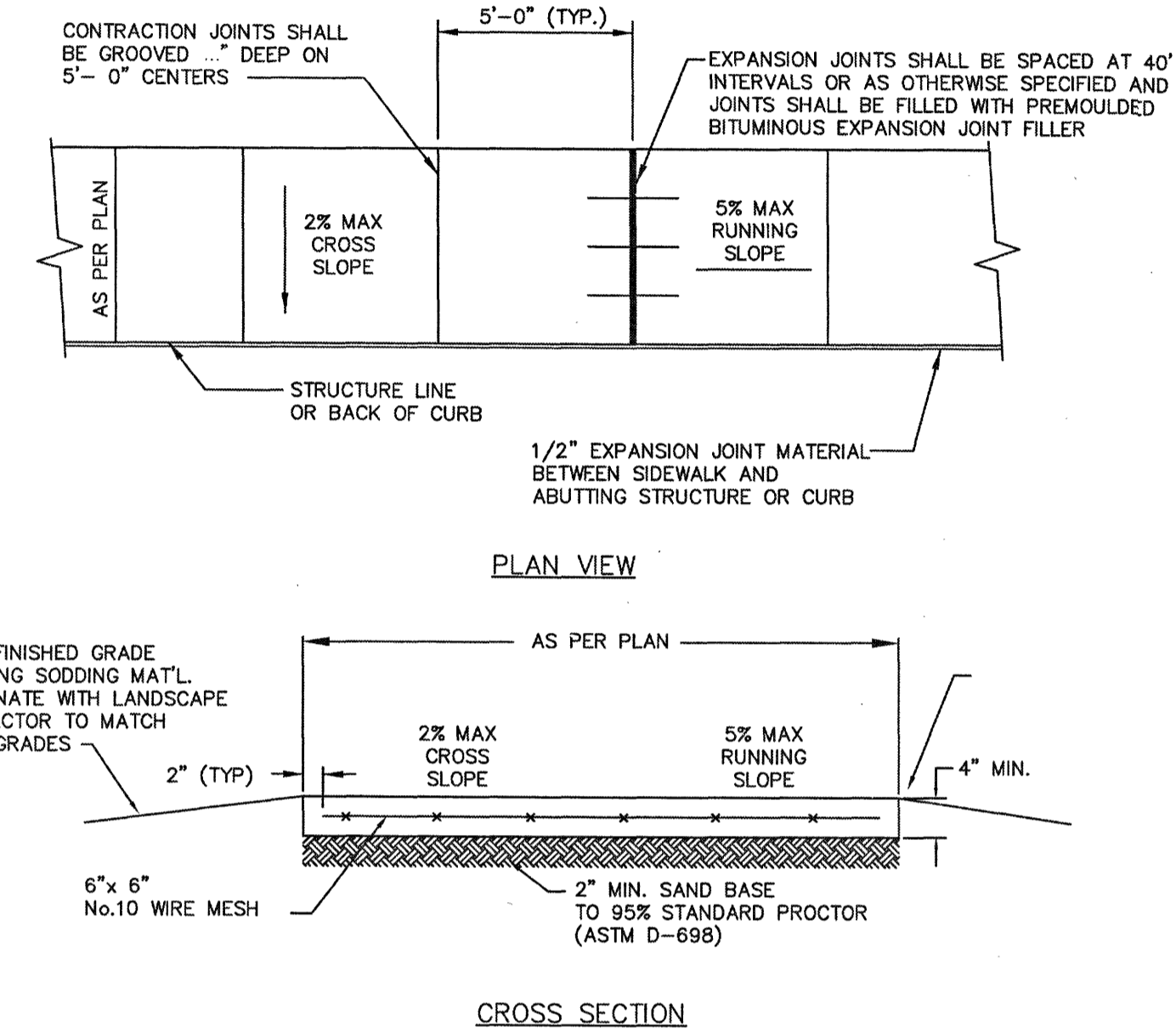


WHERE CURB IS INSTALLED AT A LOCATION WITH NO SIDEWALK, CURB SHALL BE DEPRESSED FOR FUTURE CURB RAMP INSTALLATION (TYP)

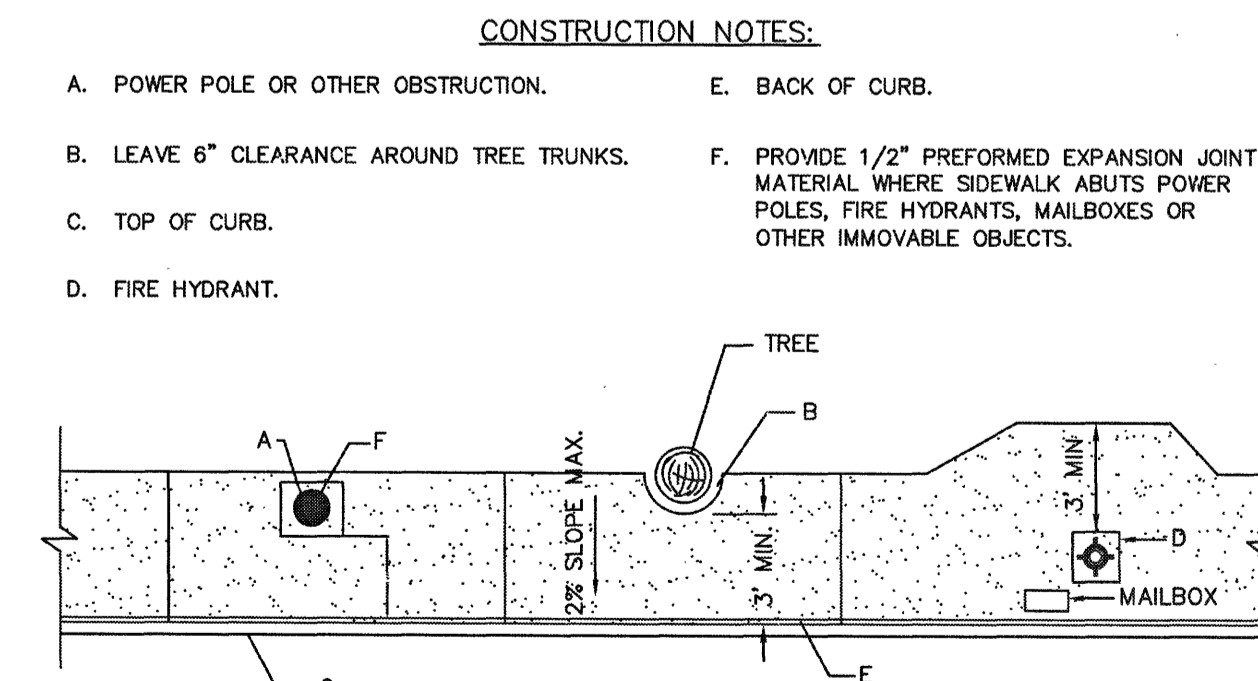


SECTION A-A CONCRETE VALLEY GUTTER

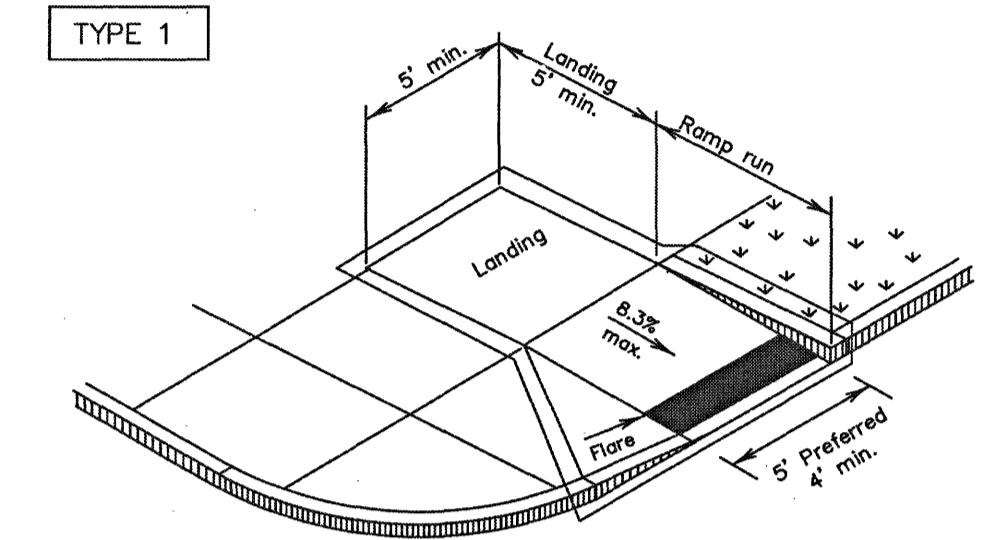
SECTION B-B



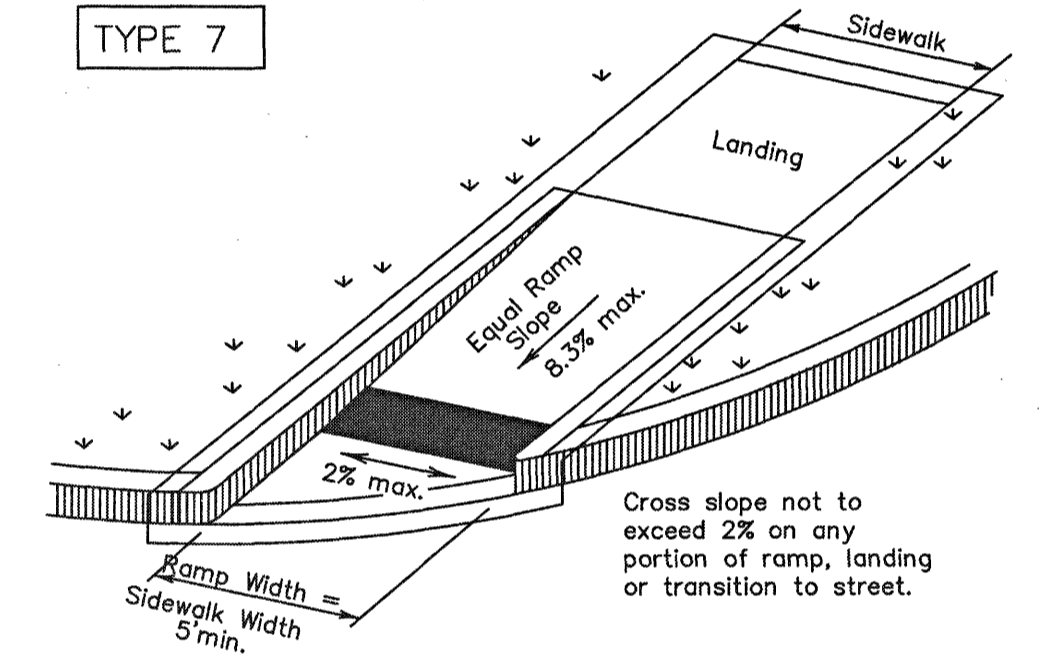
CONCRETE SIDEWALK DETAILS



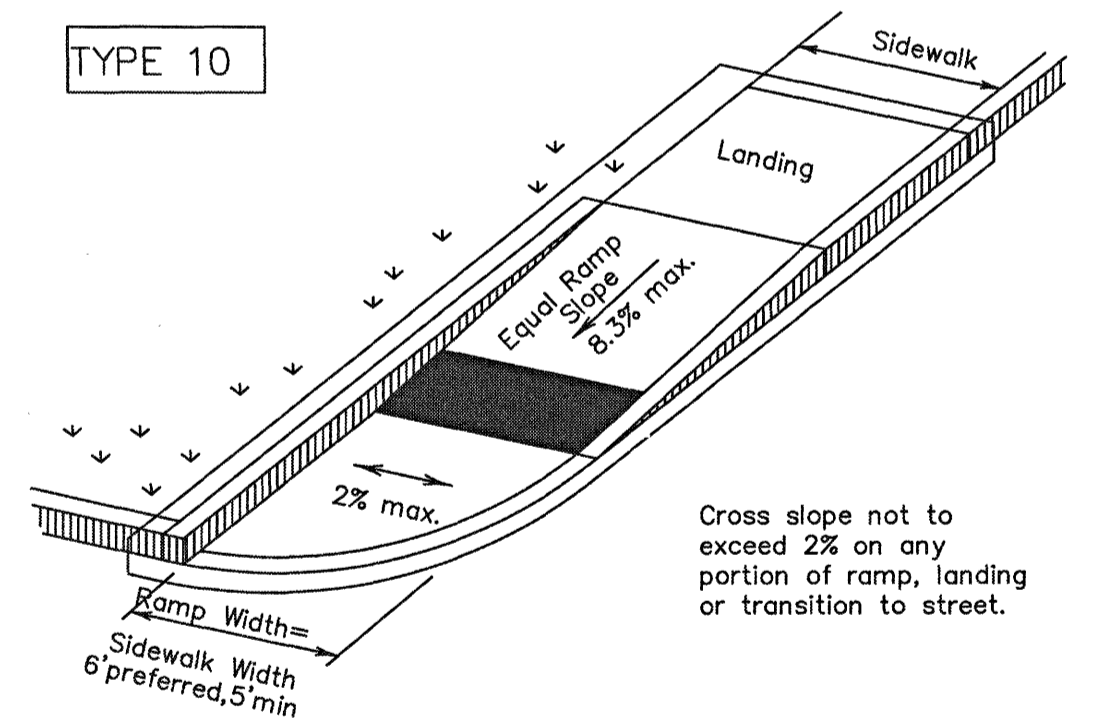
TYPICAL SIDEWALK DETAILS OBSTRUCTIONS



PERPENDICULAR CURB RAMP TRUNCATED DOME TILES AS PER ADA STANDARDS



DIRECTIONAL RAMPS WITHIN RADIUS



DIRECTIONAL RAMPS WITHIN RADIUS TRUNCATED DOME TILES AS PER ADA STANDARDS

GENERAL NOTES:

1. REDUCE NORMAL CROWN TO NO CROWN SECTION WHEN APPROACHING PERPENDICULAR TO VALLEY GUTTER.
2. REDUCE NORMAL CROWN TO HALF CROWN SECTION WHEN STREET IS PARALLEL TO VALLEY GUTTER.
3. FOR "T" INTERSECTION THE THROUGH STREET WILL RETAIN NORMAL CROWN & THE LEG OF THE "T" WILL REDUCE NORMAL CROWN TO NO CROWN SECTION WHEN APPROACHING PERPENDICULAR TO VALLEY GUTTER.
4. CONSTRUCTION PLANS WILL DETAIL "T" INTERSECTION WHEN DRAINAGE FLOWS ACROSS THROUGH STREET OF INTERSECTION.
5. CONSTRUCTION PLANS WILL SPECIFY RADI CURB RETURNS.
6. VALLEY GUTTER SHALL BE 6 FEET WIDE, PER STANDARD DETAIL.

CONSTRUCTION NOTES:

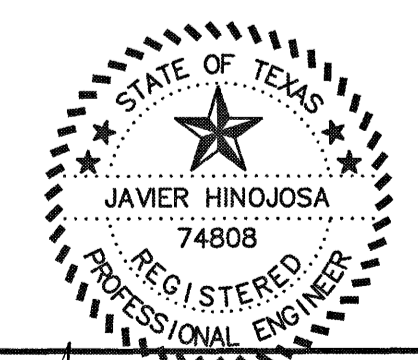
- A. NORMAL CROWN FOR RESIDENTIAL STREET.
- B. TRANSITION SECTION FROM FULL CROWN TO NO CROWN SECTION.
- C. NO CROWN SECTION.
- D. TRANSITION SECTION FROM FULL CROWN TO HALF CROWN SECTION.

GENERAL NOTES:

1. DESIGN ELEVATIONS TO BE GIVEN AT EACH END OF THE CURB RETURN (TOP OF CURB ELEVATION) AND AT INTERSECTIONS OF PROJECTED FLOWLINES (FLOWLINE ELEVATION).
2. ON UPSTREAM AND DOWNSTREAM ENDS OF THE INTERSECTION, VALLEY GUTTER CONSTRUCTION SHALL EXTEND TO THE END OF RETURNS.
3. THE VALLEY GUTTER TO BE REINFORCED WITH 6" X 6" X NO. 6 GA. WIRE MESH, OR NO. 3 @ 12" O.C.E.W. OR NO. 4 @ 16" O.C.E.W.
4. INVERT OF VALLEY GUTTER TO EXTEND FROM FLOWLINE OF UPSTREAM CURB RETURN TO FLOWLINE OF DOWNSTREAM CURB RETURN.
5. FOR NEW CONSTRUCTION, VALLEY GUTTER SHALL BE CONSTRUCTED PRIOR TO ADJACENT PAVEMENT.
6. PRIOR TO CONSTRUCTION OF NEW VALLEY GUTTER ON EXISTING ACCEPTED STREETS, PAVEMENT SHALL BE REMOVED AS SHOWN ON PLANS.
7. VALLEY GUTTER SHALL BE PLACED USING 3000 P.S.I CONCRETE.
8. FOR HANDICAP RAMP, SEE DETAIL.
9. EXISTING CURB OR PAVEMENT SHALL BE SAWCUT WHERE NECESSARY TO CONNECT TO PROPOSED VALLEY GUTTER.

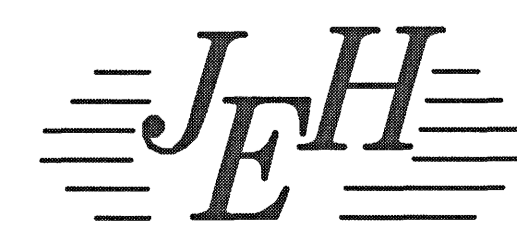
CONSTRUCTION NOTES:

- A. END OF CURB RETURN, SEE NOTE 1.
- B. PROJECTED FLOW LINE OF 1 1/2" INVERT SEE NOTE 2.
- C. INTRSECTION OF FLOWLINES, SEE NOTE 1.
- D. DIRECTION OF FLOW
- E. FLOWLINE
- F. 6" X 6" NO. 6 GA. WIRE MESH
- G. NO. 3 BARS AT 12" O.C.E.W.
- H. NO. 4 BARS AT 18" O.C.E.W.
- I. THE 1 1/2" INVERT DEPTH MAY BE REDUCED TO IMPROVE DRIVEABILITY WITH APPROVAL FROM THE CITY ENGINEER.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JAVIER HINOJOSA P.E. # 74808 ON OCTOBER 4, 2024

REVISIONS	230301A
PROJECT No.	OCT. 3, 2024
DATE:	G.T. & A.G.
DRAWN BY	J.H.
CHK. BY	



**JAVIER HINOJOSA ENGINEERING CONSULTING ENGINEERS**  
416 E. DOVE AVENUE McALLEN, TEXAS 78504  
PHONE (956) 668-1588  
TPELS FIRM No. 1295  
javier@javierhinojosaeeng.com

STANDARD PAVING DETAILS  
MONTE CIELO SUBDIVISION PHASE II  
WESLACO, TEXAS