HACEP

Housing Authority of the City of El Paso

Villa Alegre Apartments

Site Improvements

6412 Edgemere Boulevard El Paso, Texas

ARCHITECT:
MIJARES-MORA ARCHITECTS, INC.
111 N. FESTIVAL
EL PASO, TEXAS 79912
TEL: 915.542.1591

CIVIL ENGINEER:
QUANTUM ENGINEERING CONSULTANTS
414 EXECUTIVE CENTER BLVD.
SUITE 200
EL PASO, TEXAS 79902
TEL: 915.532.7272

LANDSCAPE ARCHITECT:
GREENWAY STUDIOS
2621 E. MISSOURI AVENUE
TEL: 915.471.3449

STRUCTURAL ENGINEER:
HKN ENGINEERS
5825 ONIX DRIVE - SUITE 201
EL PASO, TEXAS 79912
TEL: 915.833.2100

INDEX OF DRAWINGS

REGISTERED ARCHITECT
JORGE L. MORA
12526
STATE OF TEXAS
DATE 6·5·17

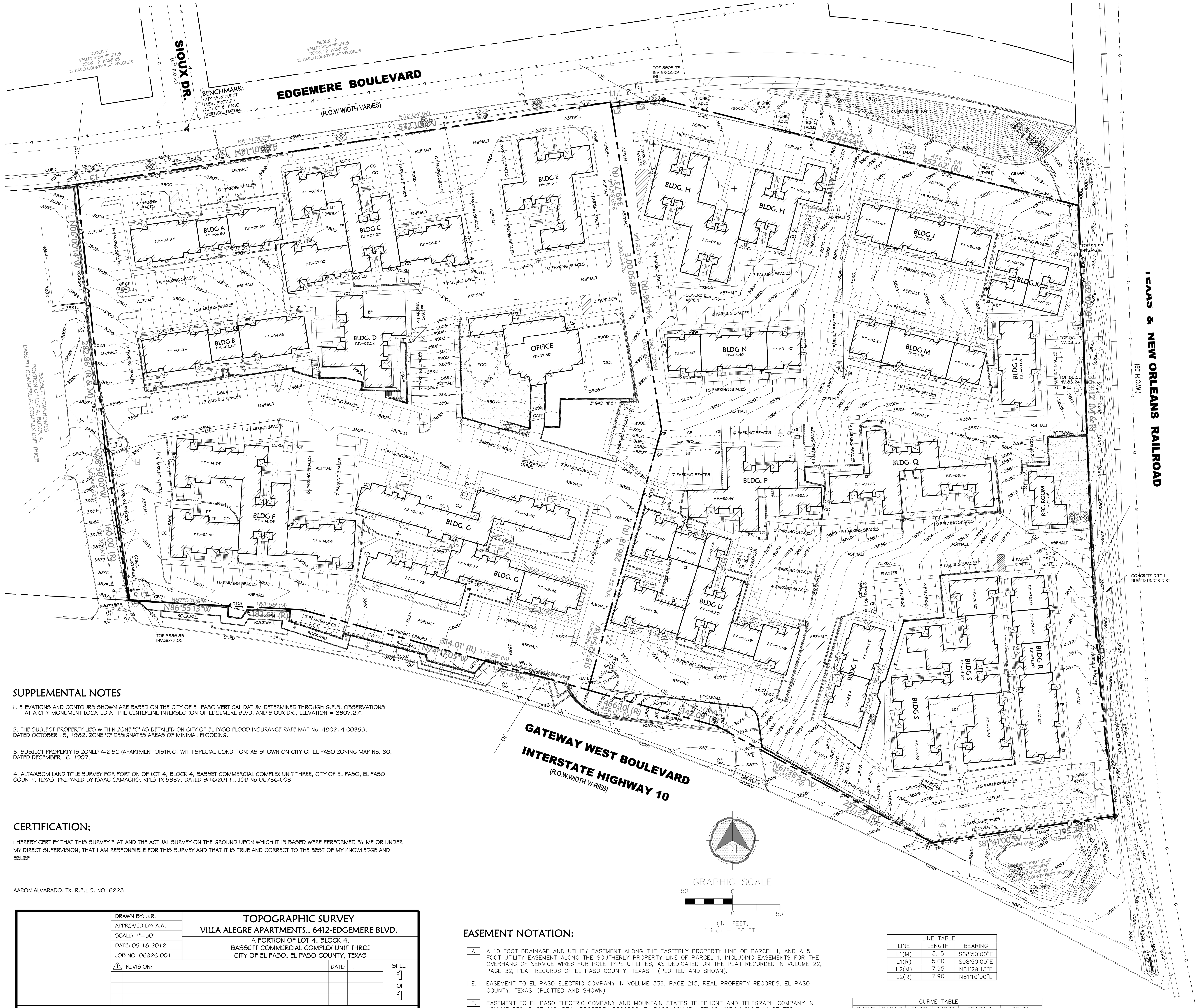
mijares • mora
ARCHITECTS INC.
111 N. FESTIVAL EL PASO, TEXAS 79912 915-542-1591

JUNE 2017

Housing Authority of the City of El Paso
Villa Alegre Apartments
Site Improvements
6412 Edgemere Boulevard
El Paso, Texas
HACEP

MIJARES-MORA ARCHITECTS PROJECT #: 1705

SET NO.:



SUPPLEMENTAL NOTES

1. ELEVATIONS AND CONTOURS SHOWN ARE BASED ON THE CITY OF EL PASO VERTICAL DATUM DETERMINED THROUGH G.P.S. OBSERVATIONS AT A CITY MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF EDGEMERE BLVD. AND SIOUX DR., ELEVATION = 3907.27'.

2. THE SUBJECT PROPERTY LIES WITHIN ZONE "C" AS DETAILED ON CITY OF EL PASO FLOOD INSURANCE RATE MAP No. 480214 0035B, DATED OCTOBER 15, 1982. ZONE "C" DESIGNATES AREAS OF MINIMAL FLOODING.

3. SUBJECT PROPERTY IS ZONED A-2 SC (APARTMENT DISTRICT WITH SPECIAL CONDITION) AS SHOWN ON CITY OF EL PASO ZONING MAP No. 30, DATED DECEMBER 16, 1997.

4. ALTA/ASCM LAND TITLE SURVEY FOR PORTION OF LOT 4, BLOCK 4, BASSET COMMERCIAL COMPLEX UNIT THREE, CITY OF EL PASO, EL PASO COUNTY, TEXAS. PREPARED BY ISAAC CAMACHO, RPLS TX 5337, DATED 9/16/2011., JOB No.06736-003.

CERTIFICATION;

I HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

AARON ALVARADO, TX. R.P.L.S. NO. 6223

DRAWN BY: J.R.	**TOPOGRAPHIC SURVEY** VILLA ALEGRE APARTMENTS., 6412-EDGEMERE BLVD.
APPROVED BY: A.A.	
SCALE: 1"=50'	A PORTION OF LOT 4, BLOCK 4, BASSETT COMMERCIAL COMPLEX UNIT THREE CITY OF EL PASO, EL PASO COUNTY, TEXAS
DATE: 05-18-2012	
JOB NO. 06926-001	

	REVISION:	DATE:	.	SHEET 1 OF 1
1				

BROCK & BUSTILLOS INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
TBPE REG. NO. F-737

417 EXECUTIVE CENTER
EL PASO, TEXAS 79902
www.brockbustillos.com
PH (915) 542-4900
FAX (915) 542-2867

EASEMENT NOTATION:

A. A 10 FOOT DRAINAGE AND UTILITY EASEMENT ALONG THE EASTERLY PROPERTY LINE OF PARCEL 1, AND A 5 FOOT UTILITY EASEMENT ALONG THE SOUTHERLY PROPERTY LINE OF PARCEL 1, INCLUDING EASEMENTS FOR THE OVERHANG OF SERVICE WIRES FOR POLE TYPE UTILITIES, AS DEDICATED ON THE PLAT RECORDED IN VOLUME 22, PAGE 32, PLAT RECORDS OF EL PASO COUNTY, TEXAS. (PLOTTED AND SHOWN).

E. EASEMENT TO EL PASO ELECTRIC COMPANY IN VOLUME 339, PAGE 215, REAL PROPERTY RECORDS, EL PASO COUNTY, TEXAS. (PLOTTED AND SHOWN)

F. EASEMENT TO EL PASO ELECTRIC COMPANY AND MOUNTAIN STATES TELEPHONE AND TELEGRAPH COMPANY IN VOLUME 339, PAGE 218, REAL PROPERTY RECORDS, EL PASO COUNTY, TEXAS, WITH MOUNTAIN STATES TELEPHONE AND TELEGRAPH COMPANY'S INTEREST THEREIN GRANTED, SOLD AND QUIT CLAIMED TO SOUTHWESTERN BELL TELEPHONE COMPANY IN VOLUME 1231, PAGE 646, REAL PROPERTY RECORDS, EL PASO COUNTY, TEXAS. (PLOTTED AND SHOWN)

H. TERMS, CONDITIONS AND STIPULATIONS OF LICENSE AND EASEMENT OF EGRESS AND INGRESS, RECORDED IN VOLUME 895, PAGE 1210, REAL PROPERTY RECORDS OF EL PASO COUNTY, TEXAS. (PLOTTED AND SHOWN)

LINE TABLE

LINE	LENGTH	BEARING
L1(M)	5.15	S08°50'00"E
L1(R)	5.00	S08°50'00"E
L2(M)	7.95	N81°29'13"E
L2(R)	7.90	N81°10'00"E

CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
C1(M/R)	1240.00'	38.02'	38.02'	N82°02'43"E	01°45'24"
C2(M)	985.00'	47.87'	47.87'	N82°33'27"E	02°47'05"
C2(R)	985.00'	47.81'	47.81'	N82°33'27"E	02°46'53"
C3(M)	2897.32'	283.58'	283.47'	S05°04'03"E	05°36'28"
C3(R)	2897.32'	283.09'	282.98'	S05°00'00"E	05°35'54"

LEGEND

- PROJECT BOUNDARY
- TRACT/LOT LINE
- RIGHT-OF-WAY
- CENTERLINE OF RIGHT-OF-WAY
- EASEMENT LINE
- SANITARY SEWER LINE — S
- STORM SEWER LINE — SS
- WATER LINE — W
- GAS LINE — G
- OVERHEAD ELECTRIC LINE — OE
- SINGLE RAILROAD TRACKS
- BOLLARD
- HANDICAP PARKING SPACE
- PINE TREE
- CONCRETE AREA
- EXISTING BUILDING
- RIP RAP AREA
- PAINTED NO PARKING ZONE
- CANOPY
- FOUND CITY MONUMENT BENCHMARK
- FINISH FLOOR ELEVATION "BLDG" — F.F.
- CLEAN OUTS
- EXISTING GARD POSTS
- EXISTING ELECTRICAL PANEL
- EXISTING SECURITY LIGHT
- FOUND 1/2" REBAR W/ SURVEY CAP TX 5337
- FOUND CHISELED "X" ON CONCRETE
- FOUND 1/2" REBAR
- FOUND CONCRETE NAIL

THIS SHEET HAS BEEN INCLUDED IN THIS PLAN SET FOR INFORMATIONAL PURPOSES ONLY

THE EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION ON THIS DRAWING WAS OBTAINED FROM BROCK & BUSTILLOS INC. PROJECT CIVIL ENGINEER DOES NOT WARRANT THE ACCURACY OF THIS INFORMATION.

VILLA ALEGRE APARTMENTS
SITE IMPROVEMENTS
6412 EDGEMERE BOULEVARD
EL PASO TEXAS 79925

DATE:
JUNE 2017

REVISED:

PHASE
100% CONSTRUCTION DOCUMENTS

mijares mora ARCHITECTS INC.
111 N. FESTIVAL EL PASO, TEXAS 79912 915-542-1591

PROJECT No.
1705

EXISTING CONDITIONS
C-1

KEY NOTES

- (A) EXISTING BUILDING TO REMAIN UNDISTURBED. CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
- (B) EXISTING AREA TO REMAIN UNDISTURBED.
- (C) EXISTING CONCRETE SIDEWALK TO REMAIN UNDISTURBED.
- (D) EXISTING WALL/ROCKWALL AND ALL ASSOCIATED APPURTENANCES TO REMAIN UNDISTURBED.
- (E) EXISTING UTILITY VALVE/STRUCTURE TO REMAIN UNDISTURBED.
- (F) EXISTING TREES, PLANTS OR SHRUBS TO REMAIN UNDISTURBED.
- (G) EXISTING POWER POLE/LIGHT POLE TO REMAIN UNDISTURBED.
- (H) EXISTING IRON FENCE TO REMAIN UNDISTURBED.
- (I) EXISTING ASPHALT/CONCRETE PAVEMENT TO REMAIN UNDISTURBED.
- (J) EXISTING UTILITY STRUCTURES/SUBSURFACE CONDUITS (SHOWN ON THE CONSTRUCTION DOCUMENTS OR NOT) TO REMAIN UNDISTURBED.
- (K) EXISTING BOLLARD AND ALL ASSOCIATED APPURTENANCES TO REMAIN UNDISTURBED.
- (L) EXISTING STORM DRAINAGE INLET, SUBSURFACE DRAINAGE SYSTEM, AND ALL ASSOCIATED APPURTENANCES TO REMAIN UNDISTURBED.
- (M) LIMITS OF EXISTING ROCKWALL, CONCRETE FOOTING, AND ALL ASSOCIATED APPURTENANCES TO BE REMOVED AND PROPERLY DISPOSED OF.
- (N) EXISTING BOLLARD AND ALL ASSOCIATED APPURTENANCES TO BE REMOVED AND PROPERLY DISPOSED OF.
- (O) EXISTING DRAINAGE PIPE TO BE REMOVED AND PROPERLY DISPOSED OF.
- (P) EXISTING PARKING STOP TO BE REMOVED AND PROPERLY DISPOSED OF.
- (Q) EXISTING TREE/VEGETATION/LANDSCAPE MATERIAL TO BE REMOVED AND PROPERLY DISPOSED OF. CONTRACTOR TO COORDINATE WITH THE OWNER TO DETERMINE IF EXISTING MATERIAL IS SALVAGEABLE FOR REINSTALLATION. THE OWNER SHALL HAVE THE FINAL WORD IF MATERIAL IS SALVAGEABLE.
- (R) EXISTING GATE/FENCE AND ALL ASSOCIATED APPURTENANCES TO BE REMOVED AND SALVAGED TO THE OWNER. CONTRACTOR TO REMOVE ALL POST AS MUCH AS POSSIBLE FROM THE EXISTING CONCRETE AND FILL IN ALL HOLES WITH CONCRETE SPECIFIED IN THE CONCRETE SIDEWALK DETAIL ON SHEET C-4. CONTRACTOR TO COORDINATE WITH THE OWNER TO DETERMINE IF EXISTING GATE/FENCE MATERIAL IS SALVAGEABLE. THE OWNER SHALL HAVE THE FINAL WORD IF MATERIAL IS SALVAGEABLE.
- (S) EXISTING GUARD RAIL TO REMAIN UNDISTURBED.
- (T) EXISTING ASPHALT BERM TO BE REMOVED AND PROPERLY DISPOSED OF TO ACCOMMODATE PROPOSED IMPROVEMENTS.
- (U) EXISTING MAIL BOXES, EXISTING WOOD CANOPY STRUCTURE AND ALL ASSOCIATED APPURTENANCES TO REMAIN UNDISTURBED.
- (*V) EXISTING ASPHALT PAVEMENT TO REMAIN UNDISTURBED. ALL CRACKS TO BE REPAIRED AND EXISTING ASPHALT SURFACE TO BE RE-SEALED/RESURFACED. EXISTING STRIPING TO BE REMOVED AND RESTRIPED AS PER ARCHITECTURAL PLANS.

*PAVEMENT MARKING REMOVAL NOTES:

1. REMOVAL OF EXISTING MARKINGS SHALL BE DONE BY ITEM 677 APPROVED WATER BLASTING METHOD IN ORDER TO PREVENT PAVEMENT DAMAGE AND/OR SCARING.
2. PRIOR TO PAVEMENT MARKING REMOVAL OPERATIONS, CONTRACTOR SHALL CALIBRATE THE WATER BLASTING OPERATIONS ON A SMALL PAVED AREA AND OBTAIN APPROVAL FROM PROJECT CIVIL ENGINEER. CONTRACTOR SHALL ADJUST WATER BLASTING OPERATIONS IN ORDER TO ACCOMMODATE FOR EXISTING PAVEMENT SURFACE CONDITIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED ON EXISTING PAVEMENT AS A RESULT OF WATER BLASTING OPERATIONS.
4. DURING REMOVAL OF EXISTING MARKINGS OR STRIPING, IF CONTRACTOR DELAYS MORE THEN 48 HOURS TO REPLACE PAVEMENT MARKINGS, PERMANENT MARKINGS SHALL BE INSTALLED.

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING HIS BID.
2. THE CONTRACTOR SHALL SCHEDULE AND PERFORM HIS WORK SO AS TO INSURE THE SAFE AND SUFFICIENT PASSAGE OF STORMWATER RUNOFF DURING THE COURSE OF HIS OPERATIONS. ALL REQUIRED LABOR, TOOLS, EQUIPMENT, AND SUPERVISION SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE OWNER, ALL AFFECTED UTILITY COMPANIES, RESIDENTS, AND ALL OTHER ENTITIES HAVING JURISDICTION OVER THE PROJECT.
4. THE CONTRACTOR SHALL VERIFY ALL CONSTRUCTION DIMENSIONS AND GRADES PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCIES NOTED SHALL BE REPORTED IMMEDIATELY TO THE PROJECT CIVIL ENGINEER AND ARCHITECT. OTHERWISE, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS.
5. VIBRATORY ROLLERS SHALL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY PROJECT ENGINEER.
6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL CURRENT SAFETY CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO OSHA REQUIREMENTS.
7. THE EXISTING TOPOGRAPHIC/BOUNDARY INFORMATION ON THIS DRAWING WAS OBTAINED FROM A PROFESSIONAL LICENSED SURVEYOR. THE PROJECT CIVIL ENGINEER DOES NOT WARRANT THE ACCURACY OF HIS INFORMATION. CONTRACTOR TO COORDINATE AND VERIFY TEMPORARY BENCHMARKS WITH PROJECT SURVEYOR.
8. WARNING! BEFORE EXCAVATING, CONTRACTOR SHALL LOCATE AND PROTECT ALL UNDERGROUND UTILITY LINES. CONTRACTOR SHALL REPLACE ANY UTILITIES DAMAGED DURING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER OR UTILITY COMPANIES HAVING JURISDICTION OR CITY OF EL PASO.
9. CONTRACTOR SHALL MAKE PROVISIONS FOR TEMPORARY DUST AND EROSION CONTROL WHERE EXTENSIVE DIRT OR DUST OPERATIONS ARE PERFORMED. THIS SHALL BE DONE TWICE A DAY ON A DAILY BASIS INCLUDING WEEKENDS AND HOLIDAYS. USE WATER SPRINKLING AND OTHER METHODS TO LIMIT DIRT AND DUST MIGRATION. DO NOT USE WATER WHEN IT MAY CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS ICE, FLOODING, AND POLLUTION. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION AND THE STORM WATER POLLUTION PREVENTION PLAN MANUAL FOR THE PROJECT. CONTRACTOR SHALL PREVENT THE EROSION OF SILT, SEDIMENT AND DEBRIS FROM THE CONSTRUCTION SITE ONTO ADJACENT PROPERTIES AND STREETS. THIS MAY BE ACCOMPLISHED THROUGH THE USE OF A GEOTEXTILE FABRIC SILT FENCE OR OTHER APPROVED MEANS.
10. FILL MATERIALS FOR SITE GRADING AND BACKFILL MAY CONSIST OF ONSITE AND/OR IMPORTED MATERIALS IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. ALL FILL MATERIAL OR SUBGRADE THAT WILL SUPPORT NEW IMPROVEMENTS SHALL BE COMPACTED TO A MINIMUM OF 95% MAX DENSITY AS PER ASTM D1557 OR AS SPECIFIED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING IMPROVEMENTS IN THE PROJECT AREA AND ITS VICINITY. ANY DAMAGES, RESULTING FROM CONTRACTOR'S WORK, SHALL BE REPAIRED TO ITS ORIGINAL CONDITION BY CONTRACTOR, AT NO COST TO THE OWNER.
12. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW AND COORDINATE THE ENTIRE SET OF DRAWINGS AND PROJECT MANUAL TO ESTABLISH PROJECT COST.
13. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS DURING CONSTRUCTION ACTIVITY.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ENVIRONMENTAL FINES RESULTING FROM HIS/HER WORK AND SHALL HOLD THE OWNER HARMLESS, IN SUCH CASES.
15. DISTURBED AREAS INCLUDE, BUT ARE NOT LIMITED TO, ASPHALT PAVEMENT, CONCRETE CURB AND GUTTER, CONCRETE SIDEWALK, MISCELLANEOUS CONCRETE AND RIP-RAP, AND AREAS DISTURBED BY CONSTRUCTION ACTIVITY.
16. EXISTING TREES & SHRUBS SHALL REMAIN UNDISTURBED UNLESS OTHERWISE NOTED.
17. ALL EXISTING TREES/SHRUBS ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL MINIMIZE THE DISTURBANCE OF ALL SURROUNDING VEGETATION (TREES, SHRUBS, GRASS, ETC.) NOT IN CONFLICT WITH THE PROPOSED IMPROVEMENTS.
18. ALL UTILITIES IN CONFLICT WITH PROPOSED DRAINAGE IMPROVEMENTS AND LOCATED WITHIN THE PROJECT LIMITS INCLUDING ALL METERS, VAULTS, POWER POLES, LIGHT POLES, SANITARY SEWER MANHOLES, UTILITY MANHOLES AND ASSOCIATED APPURTENANCES SHALL BE REMOVED, REPLACED, RELOCATED OR ADJUSTED AS NECESSARY TO ACCOMMODATE THE NEW DRAINAGE IMPROVEMENTS. ALL UTILITIES AND ASSOCIATED APPURTENANCES SHALL BE PLACED AT NEW LOCATIONS OR AREAS DESIGNATED BY THE UTILITY COMPANY(S) HAVING JURISDICTION OVER THE PROJECT. UTILITIES AND APPURTENANCES SHALL BE PLACED SO AS NOT TO CONFLICT WITH OTHER EXISTING UTILITIES AND/OR PROPOSED IMPROVEMENTS.
19. CONTRACTOR TO CONSULT WITH PROJECT ENGINEER PRIOR TO COMMENCEMENT OF THE DEMOLITION WORK.
20. CONTRACTOR SHALL COORDINATE ALL REMOVALS, RELOCATIONS, REPLACEMENTS OR ADJUSTMENTS WITH THE PROPERTY OWNERS, CITY ENGINEERING AND THE PROJECT ENGINEER.
21. ALL EXISTING WATER AND WASTEWATER LINES WITHIN THE PROJECT LIMITS SHALL REMAIN UNDISTURBED UNLESS OTHERWISE SPECIFIED ON THESE DRAWINGS.
22. UNDERGROUND/OVERHEAD UTILITIES SHOWN ON THE DRAWINGS ARE FOR DESIGN PURPOSES ONLY. OTHER UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE DRAWINGS. THE LOCATION, DEPTH, AND SIZE OF THE UTILITIES SHOWN, ARE FOR INFORMATION PURPOSES ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL USE EXTREME CAUTION WHILE GRADING AND/OR CONSTRUCTING IMPROVEMENTS IN AREAS WHERE OVERHEAD POWERLINES OR GUY WIRES EXIST. CONTRACTOR SHALL CONSULT WITH THE EPEC AND/OR OTHER UTILITY COMPANIES HAVING JURISDICTION WHEN WORKING IN THE GENERAL VICINITY OR BELOW THE OVERHEAD LINES OR GUY WIRES, ESPECIALLY WITH HEAVY EQUIPMENT. CONTRACTOR SHALL NOT DISTURB POWER POLES, GUY WIRES, GUY WIRE ANCHORS OR LINES WITHOUT CONSULTING WITH THE EL PASO ELECTRIC COMPANY OR OTHERS HAVING JURISDICTION.
23. ALL EXISTING UNDERGROUND/OVERHEAD UTILITIES SHALL REMAIN UNDISTURBED UNLESS OTHERWISE NOTED ON THE PLANS.
24. EXISTING GAS MAIN CURRENTLY IN SERVICE WITHIN THE PROJECT LIMITS MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING GAS MAIN (INCLUDING SERVICE LINES) FROM DAMAGE AS A RESULT OF THE CONSTRUCTION ACTIVITIES. CONTRACTOR TO COORDINATE WITH THE TEXAS GAS SERVICE (TGS) AS NECESSARY.
25. IN THE EVENT THAT EXISTING MAINS ARE IN CONFLICT WITH CONSTRUCTION – CONTRACTOR MUST COORDINATE WITH TEXAS GAS SERVICE COMPANY AND ALLOW 2 WEEKS WITHIN THE CITY OF EL PASO CONSTRUCTION SCHEDULE FOR RELOCATION OF HIGH PRESSURE GAS MAINS AND INTERMEDIATE GAS MAINS.
26. CALL FOR LINE SPOT BEFORE BEGINNING CONSTRUCTION OR EXCAVATION. TGS RECOMMENDS THAT CONTRACTOR CALL FOR LINE SPOTS PRIOR TO EXCAVATING IN THE AREA. IT IS REQUIRED THAT CONTRACTOR CALL TGS 48 HOURS PRIOR TO EXCAVATING THE AREA NEAR THE HIGH PRESSURE GAS MAIN.
27. CONTRACTOR SHALL EXERCISE EXTRA CARE WHEN WORKING IN THE PROXIMITY OF THE EXISTING FIBER OPTIC LINES. FIBER OPTIC LINES SHALL NOT BE DISTURBED OR ADJUSTED. CONTRACTOR MUST COORDINATE WITH UTILITY COMPANIES HAVING JURISDICTION.
28. ACTIVE WATER AND SANITARY SEWER MAIN LINE UTILITIES (INCLUDING SERVICE LINES), WHETHER OR NOT SHOWN ON THESE DRAWINGS, SHALL BE ADEQUATELY PROTECTED WITH BERMS AND/OR BRIDGING DURING CONSTRUCTION SO AS NOT TO DAMAGE THE EXISTING MAINS THAT ARE TO REMAIN. ANY DAMAGES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED, RESTORED AND/OR REPLACED BY THE CONTRACTOR AS NECESSARY IN ACCORDANCE WITH THE EL PASO WATER UTILITIES STANDARDS AND SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER.
29. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING OVERHEAD UTILITIES.
30. ANY STRUCTURES ATTACHED TO EXISTING BUILDINGS INCLUDING COLUMNS, AWNINGS, ETC. AND LOCATED WITHIN CITY RIGHT-OF-WAY OR CONFLICTING WITH THE PROPOSED IMPROVEMENTS, SHALL REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE ALL REMOVALS, REPLACEMENTS AND/OR MODIFICATIONS WITH THE CITY BUILDING OFFICIAL(S) AND PROJECT ENGINEER PRIOR TO COMMENCEMENT OF DEMOLITION WORK. SHOULD ANY EXISTING STRUCTURE INTERFERE OR CONFLICT WITH PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL CONSULT WITH THE CITY BUILDING OFFICIALS, PROJECT ENGINEER OR DESIGNATED REPRESENTATIVE PRIOR TO DEMOLITION WORK.

NOTES:

1. PRIOR TO START OF ANY DEMOLITION/CONSTRUCTION CONTRACTOR TO FIELD VERIFY/TEST EXISTING WORKING CONDITION OF ALL ELECTRICAL/LIGHTING SYSTEMS. IF ANY PROBLEMS EXIST THE CONTRACTOR MUST REPORT THE PROBLEMS IMMEDIATELY TO OWNER, VILLA ALEGRE APARTMENTS MAINTENANCE PERSONNEL, ARCHITECT, AND PROJECT ENGINEER.
2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER PRIOR TO CONSTRUCTION OF NEW IMPROVEMENTS.
3. THE ENTIRE CONSTRUCTION ZONE SHALL BE FENCED OFF AND CLOSED TO ALL THROUGH PEDESTRIAN OR VEHICULAR TRAFFIC THROUGHOUT THE DURATION OF CONSTRUCTION. EXCEPT FOR EMERGENCY RESPONSE VEHICLES, VILLA ALEGRE APARTMENTS MAINTENANCE PERSONNEL/OFFICIALS, CONSTRUCTION PERSONNEL/OFFICIALS, AND PROJECT DESIGN TEAM.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING IMPROVEMENTS SHOWN NOT TO BE DISTURBED IN THE PROJECT AREA AND ITS VICINITY. ANY DAMAGES RESULTING FROM THE CONTRACTOR'S WORK SHALL BE REPAIRED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.
5. EXISTING UTILITY LINES AND IRRIGATION LINES, SPRINKLER HEADS, VALVE BOXES, LATERALS AND ASSOCIATED APPURTENANCES SHALL BE REMOVED, REPLACED AND/OR ADJUSTED AS NECESSARY TO ACCOMMODATE NEW GRADING, NEW FINISHED GRADE ELEVATIONS AND/OR NEW IMPROVEMENTS. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND/OR MAINTENANCE PERSONNEL, FOR IRRIGATION SCHEDULES AND EXACT LOCATION OF EXISTING AND NEW SYSTEM(S).
6. SHOULD ANY PAVEMENT OR STRUCTURE DESIGNATED TO REMAIN UNDISTURBED BE DISTURBED OR DAMAGED, THE STRUCTURE OR PAVEMENT SHALL BE REMOVED AND REPLACED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

LEGEND:

- EXISTING BUILDING FOOTPRINT TO REMAIN UNDISTURBED.
- LIMITS OF EXISTING CONCRETE PAVEMENT TO BE NEATLY SAWCUT, REMOVED AND PROPERLY DISPOSED OF TO ACCOMMODATE PROPOSED IMPROVEMENTS.
- LIMITS OF EXISTING CONCRETE SIDEWALK TO BE NEATLY SAWCUT, REMOVED AND PROPERLY DISPOSED OF TO ACCOMMODATE PROPOSED IMPROVEMENTS.
- LIMITS OF EXISTING LANDSCAPE TO BE REMOVED AND PROPERLY DISPOSED OF. CONTRACTOR TO COORDINATE WITH OWNER TO DETERMINE IF MATERIAL IS SALVAGEABLE. THE OWNER SHALL MAKE THE FINAL DETERMINATION ON WHETHER OR NOT THE MATERIAL IS SALVAGEABLE.
- LIMITS OF EXISTING HMAC, TO BE REMOVED, PROPERLY DISPOSED OF TO ACCOMMODATE PROPOSED IMPROVEMENTS.
- LIMITS EXISTING ASPHALT PAVEMENT TO REMAIN UNDISTURBED. ALL CRACKS TO BE REPAIRED AND EXISTING ASPHALT SURFACE TO BE RE-SEALED/RESURFACED. EXISTING STRIPING TO BE REMOVED AND RESTRIPED AS PER ARCHITECTURAL PLANS.
- LIMITS OF EXISTING CONCRETE CURB TO BE NEATLY SAW-CUT, REMOVED AND PROPERLY DISPOSED OF TO ACCOMMODATE PROPOSED IMPROVEMENTS.

STATE OF TEXAS
ROBERT A. GONZALES
69920
PROFESSIONAL ENGINEER
6/1/17

VILLA ALEGRE APARTMENTS
SITE IMPROVEMENTS
6412 EDGEMERE BOULEVARD
EL PASO TEXAS 79925

DATE: JUNE 2017

REVISED:

PHASE
100% CONSTRUCTION DOCUMENTS

mijares mora
ARCHITECTS INC.
111 N. FESTIVAL EL PASO, TEXAS 79912 915-542-1591

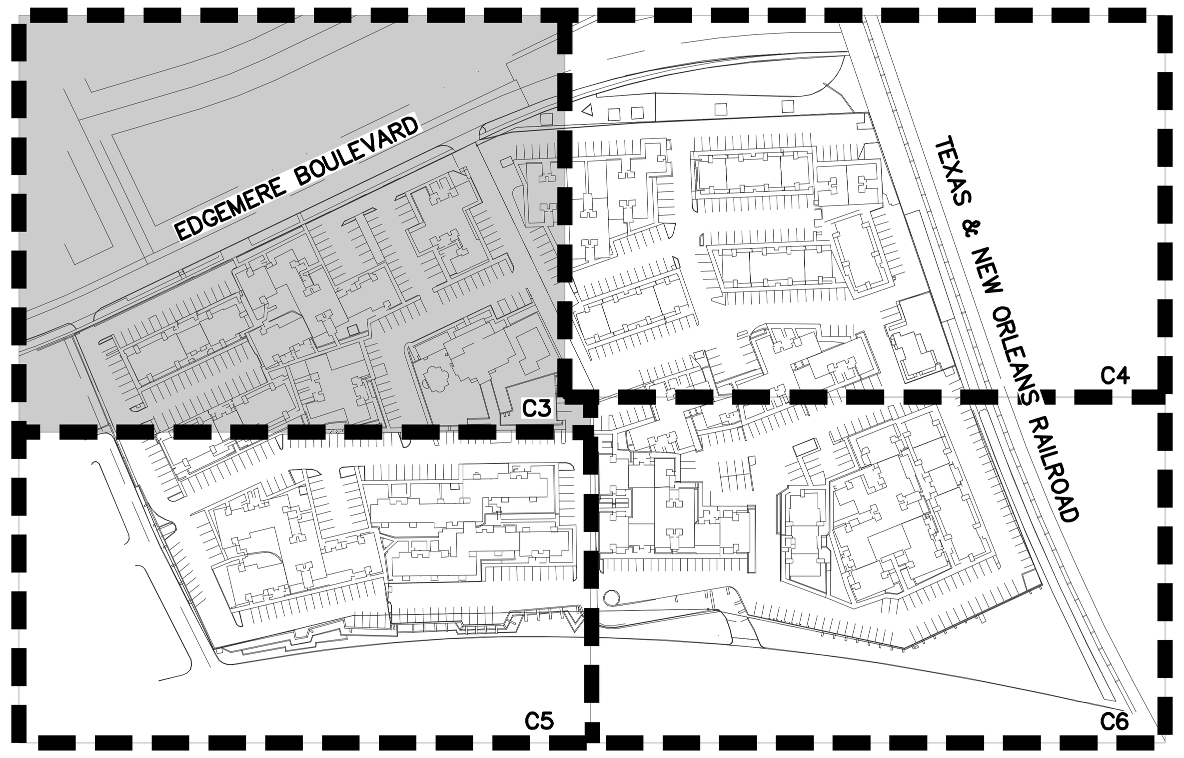
QUANTUM engineering consultants incorporated
720 ARIZONA AVE.
El Paso TX 79902
P 915.532.7272
F 915.532.7373
Texas Registered Engineering Firm F-005146

PROJECT No. 1705

DEMOLITION PLAN NOTES

C-2

Jun 02,2017 4:02pm broj
Q:\Active Drawings\1712 Villa Alegre Apts\Civil\60% CD 5-24-17\C-2- C-4 Demolition Plan (1 of 2).dwg



KEY MAP

SCALE: N.T.S

NOTE:
EXISTING IRRIGATION LINES, SPRINKLER HEADS, VALVE BOXES, LATERALS AND ASSOCIATED APPURTENANCES SHALL BE REMOVED, REPLACED AND/OR ADJUSTED AS NECESSARY TO ACCOMMODATE NEW GRADING, NEW FINISHED GRADE ELEVATIONS AND/OR NEW IMPROVEMENTS. CONTRACTOR SHALL COORDINATE WITH CITY OF EL PASO DEPARTMENT OF TRANSPORTATION, STATE OFFICIALS AND/OR MAINTENANCE PERSONNEL, FOR IRRIGATION SCHEDULES AND EXACT LOCATION OF EXISTING AND NEW SYSTEM(S).

CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING IMPROVEMENTS IN THE PROJECT AREA AND ITS VICINITY. ANY DAMAGES RESULTING FROM THE CONTRACTOR'S WORK SHALL BE REPAIRED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL SUBMIT A SAFETY CONTROL PLAN TO PROTECT EXISTING BUILDINGS AND STRUCTURES TO REMAIN, PEDESTRIANS AND FACILITY USERS.

WARNING! BEFORE YOU DIG

COORDINATION WITH UTILITIES:

CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION AND/OR RELOCATION OF EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION WORK.

EL PASO ELECTRIC CO.
501 WEST SAN ANTONIO STREET
EL PASO, TEXAS 79901
(915) 543-5970

AT&T INCORPORATED
11N0 PELLICANO DRIVE
EL PASO, TEXAS 79935
(800) 344-8377
(800) 252-1133 (FIBER OPTIC)

TEXAS EXCAVATION SAFETY SYSTEM
ANYWHERE IN TEXAS
(800) 344-8377

TEXAS GAS SERVICE
4700 POLLARD STREET
EL PASO, TEXAS 79930
(915) 680-7329

E.P.I.S.D.
6531 BOEING DR.
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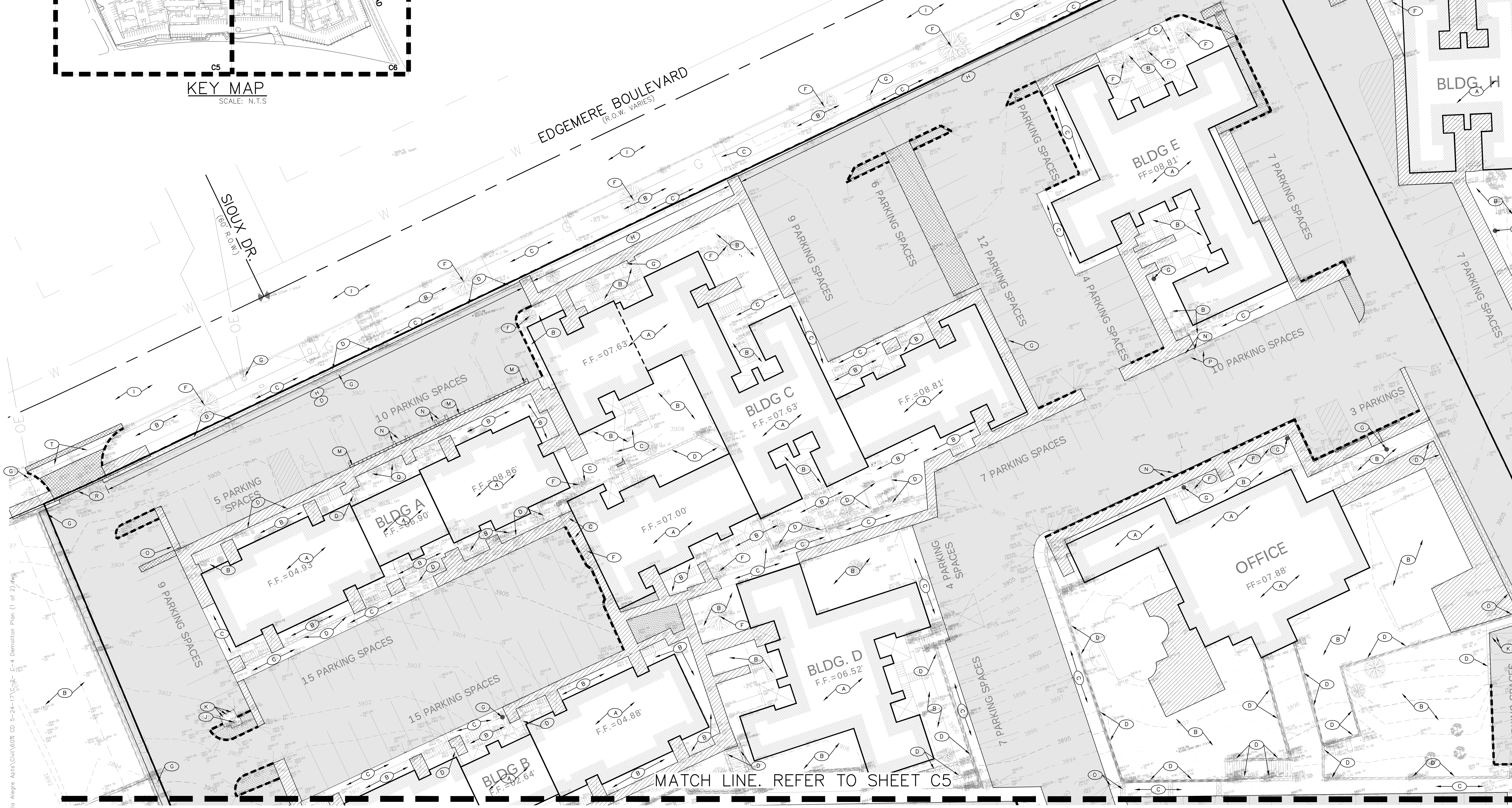
(915) 775-7414

EL PASO WATER UTILITIES PUBLIC SERVICE BOARD
1154 HAWKINS BLVD. EL PASO, TEXAS 79925
(915) 594-5528



DEMOLITION PLAN (1 OF 4)

SCALE: 1" = 20'

NORTH

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69920
REGISTERED PROFESSIONAL ENGINEER
6/9/17

VILLA ALEGRE APARTMENTS
SITE IMPROVEMENTS
6412 EDGEMERE BOULEVARD
EL PASO TEXAS 79925

DATE: JUNE 2017

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PROJECT No. 1705

DEMOLITION PLAN (1 OF 4)

C-3

QUANTUM engineering consultants incorporated
720 ARIZONA AVE.
El Paso TX 79902
P 915.532.7272
F 915.532.7373
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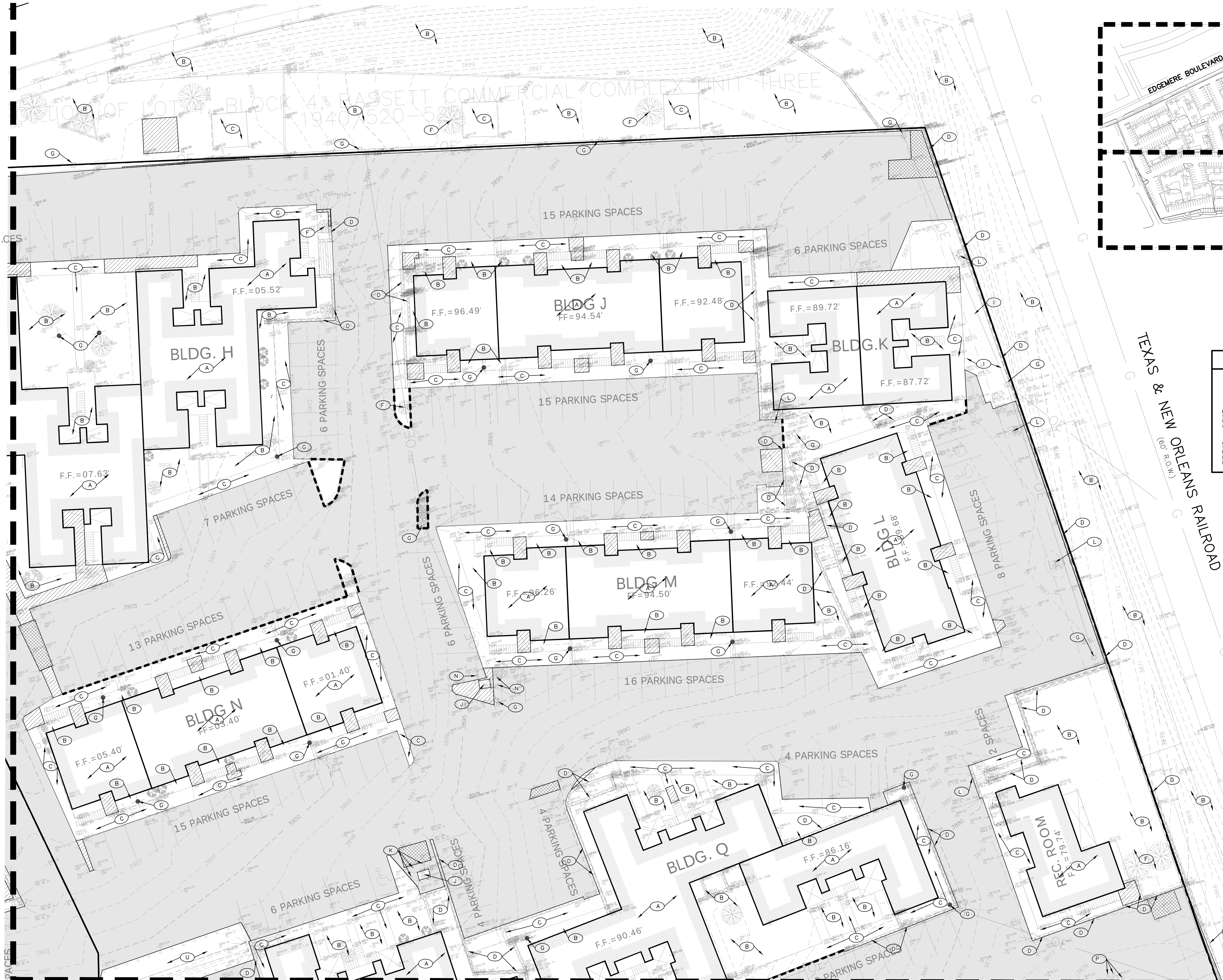
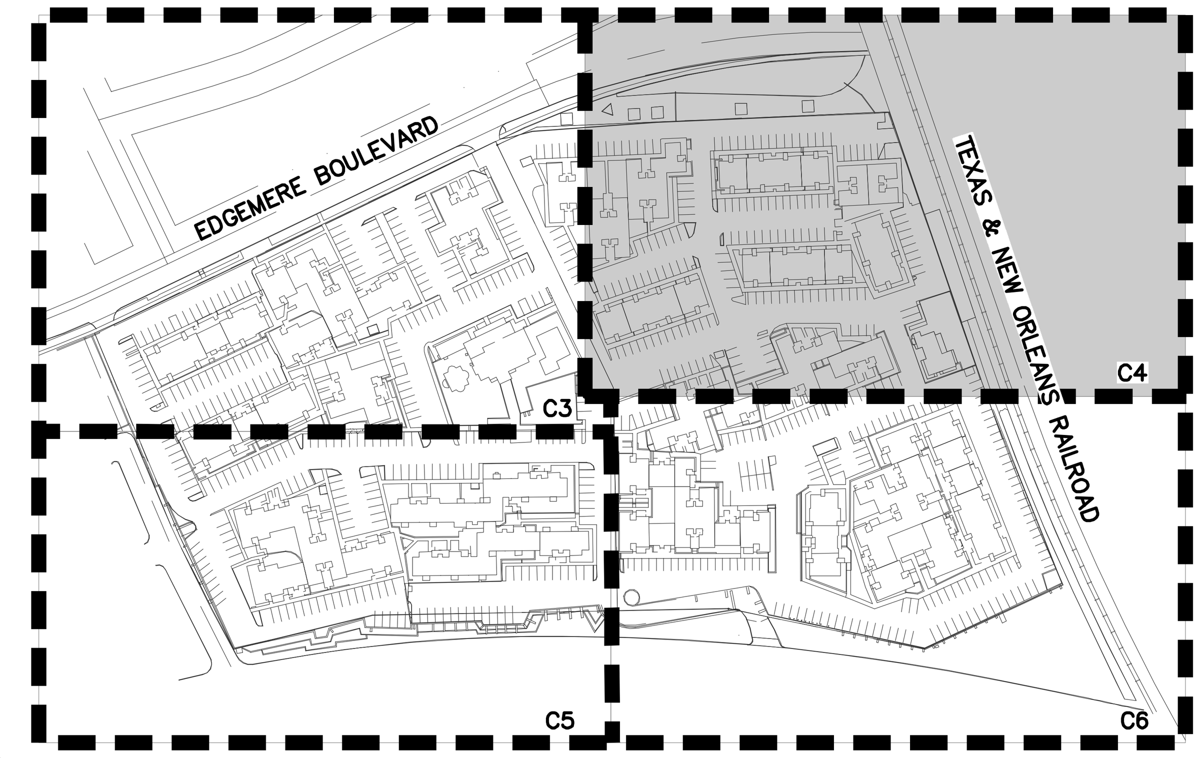


MATCH LINE. REFER TO SHEET C6.

DEMOLITION PLAN (2 OF 4)

SCALE: 1" = 20'

NORTH



KEY MAP

SCALE: N.T.S

WARNING! BEFORE YOU DIG

COORDINATION WITH UTILITIES:

CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION AND/OR RELOCATION OF EXISTING UTILITIES ENCOUNTERED

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501 WEST SAN ANTONIO STREET
EL PASO, TEXAS 79901
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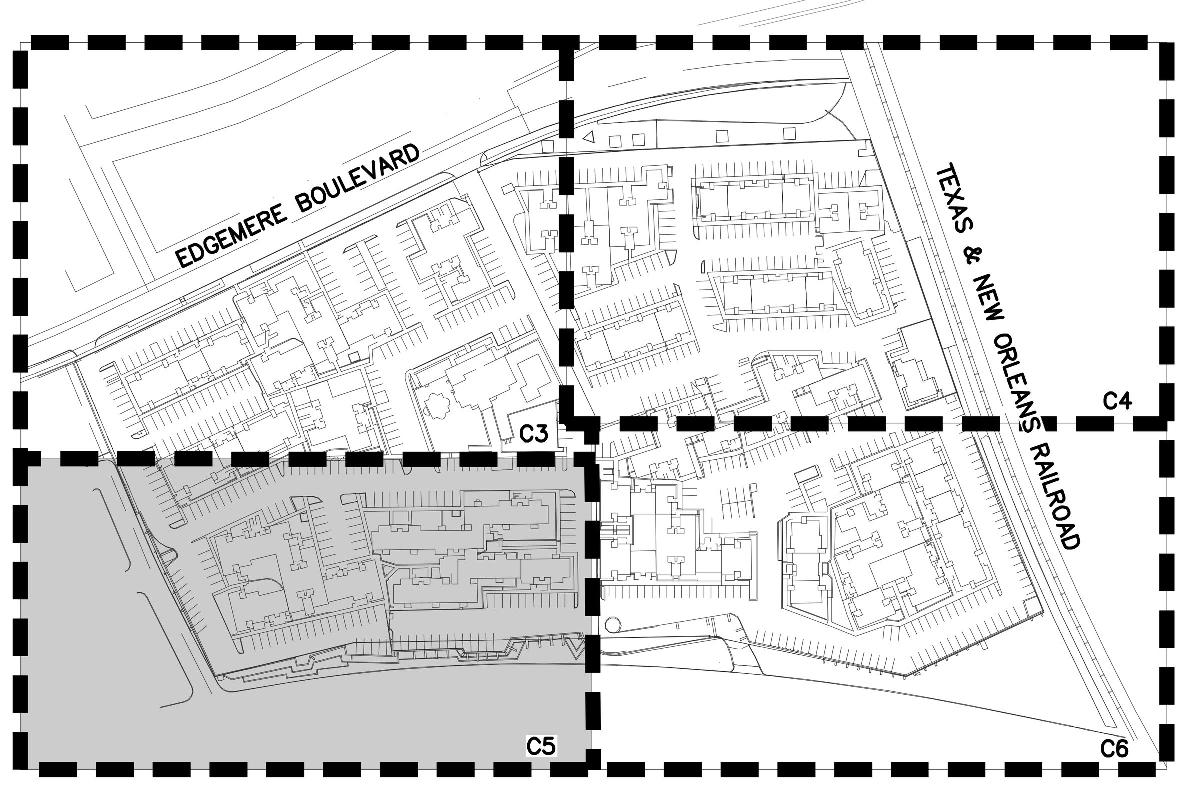
PROJECT No. 1705

DEMOLITION PLAN (2 OF 4)

C-4

DEMOLITION PLAN (3 OF 4)

SCALE: 1" = 20'



KEY MAP

SCALE: N.T.S

***PAVEMENT MARKING REMOVAL NOTES:**

1. REMOVAL OF EXISTING MARKINGS SHALL BE DONE BY ITEM 677 APPROVED WATER BLASTING METHOD IN ORDER TO PREVENT PAVEMENT DAMAGE AND/OR SCARING.
2. PRIOR TO PAVEMENT MARKING REMOVAL OPERATIONS, CONTRACTOR SHALL CALIBRATE THE WATER BLASTING OPERATIONS ON A SMALL PAVED AREA AND OBTAIN APPROVAL FROM PROJECT CIVIL ENGINEER. CONTRACTOR SHALL ADJUST WATER BLASTING OPERATIONS IN ORDER TO ACCOMMODATE FOR EXISTING PAVEMENT SURFACE CONDITIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED ON EXISTING PAVEMENT AS A RESULT OF WATER BLASTING OPERATIONS.
4. DURING REMOVAL OF EXISTING MARKINGS OR STRIPING, IF CONTRACTOR DELAYS MORE THEN 48 HOURS TO REPLACE PAVEMENT MARKINGS, PERMANENT MARKINGS SHALL BE INSTALLED.

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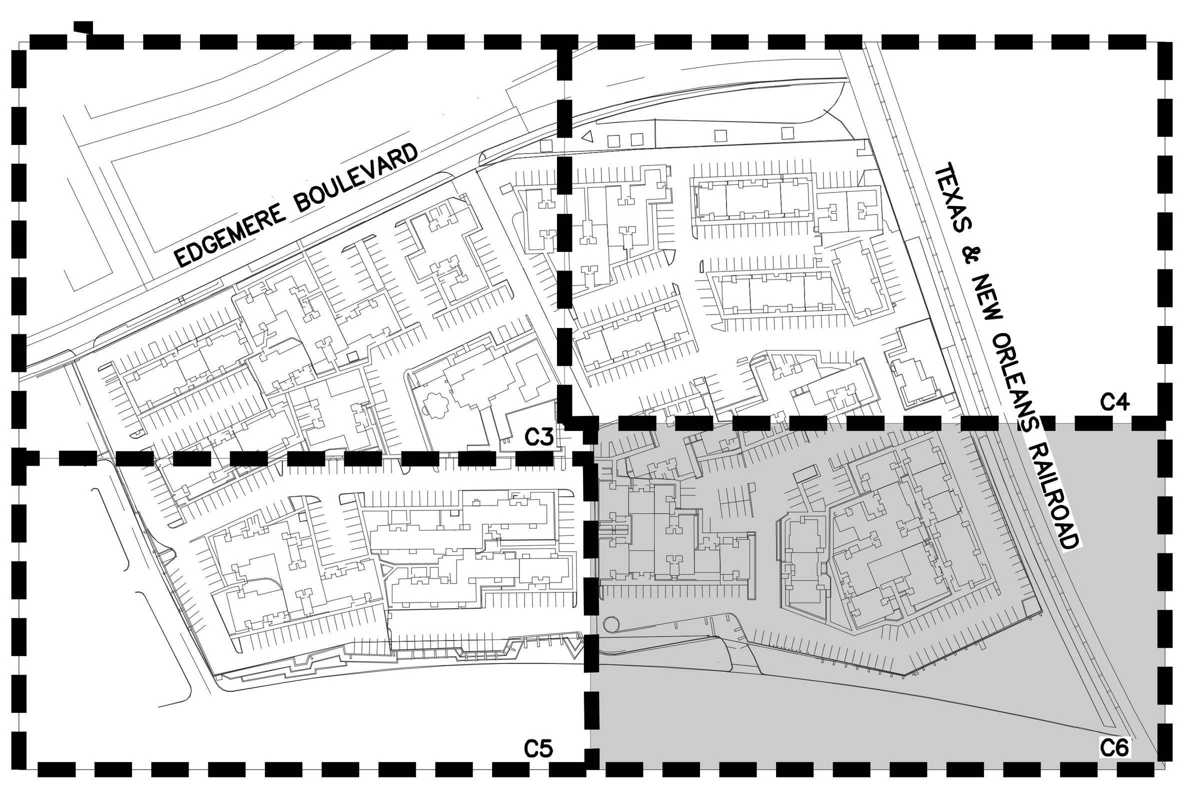
PROJECT No.
1705

DEMOLITION PLAN
(3 OF 4)

C-5

Jun 02,2017 4:10pm broj
Q:\Active Drawings\1712 Villa Alegre Apts\Civil\60% CD 5-24-17\C-5-6 Demolition Plan (2 of 2).dwg



KEY MAP

SCALE: N.T.S

NORTH

DEMOLITION PLAN (4 OF 4)

SCALE: 1" = 20'

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PROJECT No.
1705

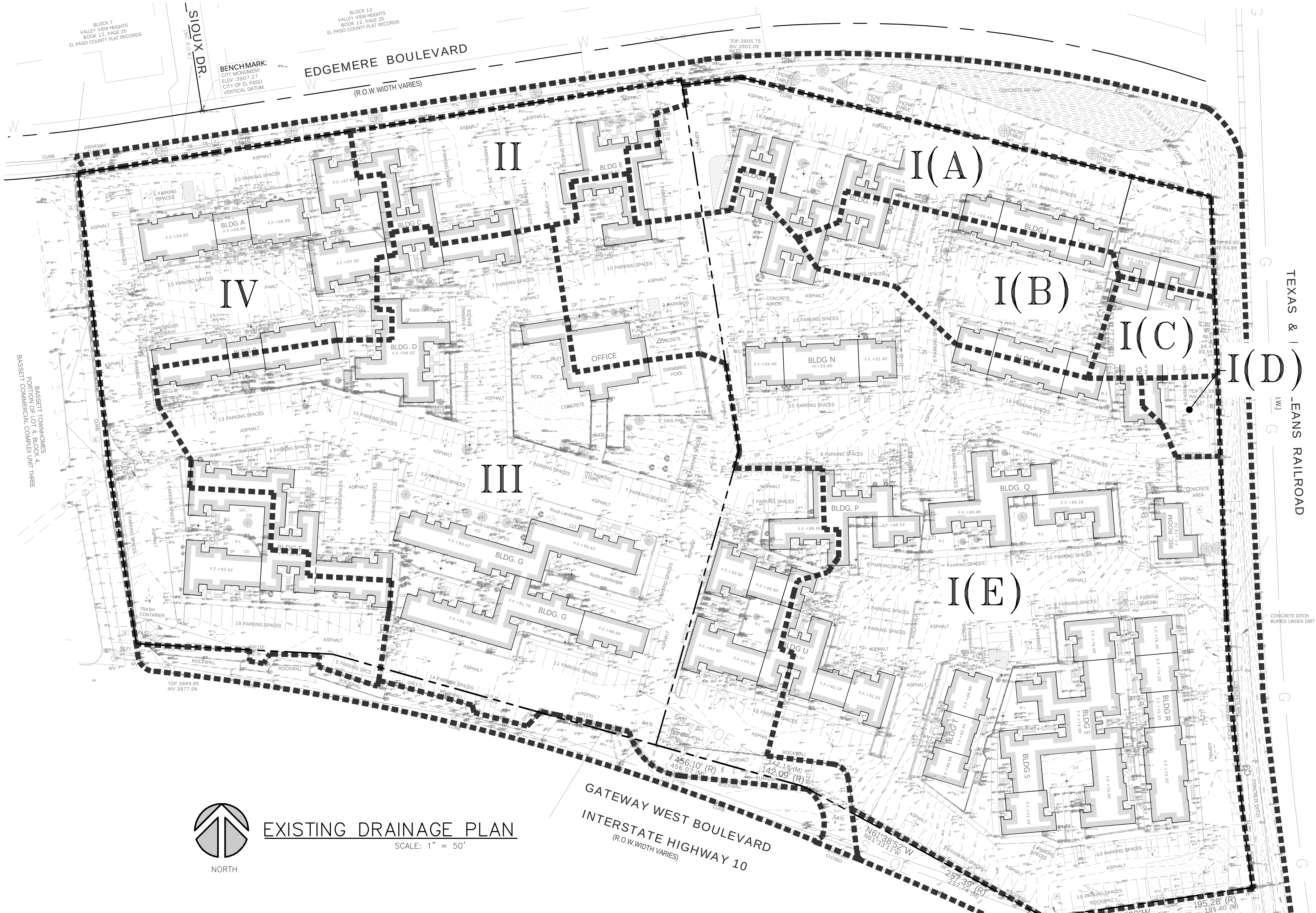
DEMOLITION PLAN (4 OF 4)

C-6

6 OF 28

GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES FOR THE EXACT LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES INCLUDING UTILITIES NOT SHOWN ON PLANS. THE CONTRACTOR SHALL PROTECT ALL THE EXISTING UNDERGROUND AND OVERHEAD STRUCTURES AND UTILITIES DURING CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS ON SITE AND SHALL CONTACT THE DESIGN ENGINEER AND REPORT ANY DISCREPANCIES, OMISSIONS AND/OR ERRORS ON PLANS PRIOR TO COMMENCING WORK.
3. INSTALL A TRENCH SAFETY SYSTEM FOR ALL TRENCHES EXCEEDING A DEPTH OF FIVE FEET (5') AS PER OSHA STANDARDS. CONTRACTOR TO SUBMIT A TRENCH SAFETY PLAN FOR APPROVAL PRIOR TO ANY EXCAVATION WORK.
4. THE CONTRACTOR WILL COORDINATE ALL UTILITY REMOVAL AND RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANIES INCLUDING, BUT NOT LIMITED TO, THE EL PASO WATER UTILITIES, EL PASO ELECTRIC COMPANY, TEXAS GAS SERVICE, AT&T COMMUNICATIONS, ETC.
5. ALL STORM DRAIN STATIONING IS TAKING FROM CENTER TO CENTER OF EACH STRUCTURE.
6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED AND STRICT CONFORMANCE WITH ALL CURRENT SAFETY CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO ALL OSHA REQUIREMENTS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING AND/OR NEWLY CONSTRUCTED IMPROVEMENTS IN THE PROJECT AREA AND ITS VICINITY. ANY DAMAGES RESULTING FROM CONTRACTOR'S WORK AND/OR VANDALISM SHALL BE REPAIRED TO ITS ORIGINAL CONDITION BY CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.
8. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS DURING CONSTRUCTION ACTIVITY.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ENVIRONMENTAL FINES RESULTING FROM HIS/HER WORK AND SHALL HOLD THE OWNER HARMLESS ON SUCH CASES.
10. EXISTING GAS MAINS CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING GAS MAINS (INCLUDING SERVICE LINES) FROM DAMAGE AS A RESULT OF THE CONSTRUCTION ACTIVITIES.
11. IN THE EVENT THAT EXISTING MAINS ARE IN CONFLICT WITH CONSTRUCTION – CONTRACTOR MUST COORDINATE WITH TEXAS GAS SERVICE COMPANY AND ALLOW 2 WEEKS WITHIN THE OWNER'S CONSTRUCTION SCHEDULE FOR RELOCATION OF HIGH PRESSURE GAS MAINS AND INTERMEDIATE GAS MAINS.
12. CALL FOR LINE SPOT BEFORE BEGINNING CONSTRUCTION OR EXCAVATION. TGS RECOMMENDS THAT CONTRACTOR CALL FOR LINE SPOTS PRIOR TO EXCAVATING IN THE AREA. IT IS REQUIRED THAT CONTRACTOR CALL TGS 48 HOURS PRIOR TO EXCAVATING THE AREA NEAR THE HIGH PRESSURE GAS MAIN.
13. UNDERGROUND/OVERHEAD UTILITIES SHOWN ON THE DRAWINGS ARE FOR DESIGN PURPOSES ONLY. OTHER UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE DRAWINGS. THE LOCATION, DEPTH, AND SIZE OF THE UTILITIES SHOWN, ARE FOR INFORMATION PURPOSES ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR.
14. SHOULD UNSTABLE SOIL CONDITION BE ENCOUNTERED DURING THE STORM DRAINAGE SYSTEM INSTALLATION. CONTRACTOR SHALL USE CEMENT STABILIZED BACKFILL.
15. CEMENT STABILIZED BACKFILL SHALL CONSIST OF 2 SACKS OF CEMENT PER CUBIC YARD OF SOIL.



EXISTING DRAINAGE PLAN

SCALE: 1" = 50'

DRAINAGE NOTES:

1. A DRAINAGE STUDY WAS NOT PERFORMED FOR THIS PROJECT.
2. A WATER HARVESTING DEPRESSION IS BEING PROPOSED "ON–SITE" WHICH WILL RETAIN A SMALL AMOUNT OF STORMWATER ON–SITE THUS, REDUCING THE DISCHARGE QUANTITIES INTO THE LINCOLN PARK DRAIN.
3. RUN–OFF QUANTITIES, STORMWATER RUNOFF COEFFICIENTS AND DRAINAGE FLOW PATTERNS WERE NOT ALTERED IN ANY WAY FROM ORIGINAL GRADING AND DRAINAGE SCHEME FOR THE SITE.
4. NO ADDITIONAL PIPES, DISCHARGE POINTS AND/OR ADDITIONAL STORMWATER RUNOFF, WILL BE CONNECTED TO OR BE PLACED INTO THE EXISTING LINCOLN PARK DRAIN.

DRAINAGE CALCULATIONS

$Q_{100} = C\ I\ A$

STORM DRAINAGE CALCULATIONS BASED ON A 50 YEAR STORM FREQUENCY.

WATERSHED AREA (1)	AREA (AC) (2)	CW (5) (weighted developed coefficient)	tC (min) (3)	i50 (in/hr) (3)	i100 (in/hr) (3)	Q50 (CFS) (6)	Q100 (CFS) (6)
I(A)	1.14	0.9	10.00	4.46	5.36	4.59	5.51
I(B)	0.64	0.9	10.00	4.46	5.36	2.55	3.06
I(C)	0.21	0.91	10.00	4.46	5.36	0.84	1.01
I(D)	0.10	0.93	10.00	4.46	5.36	0.42	0.50
I(E)	5.36	0.90	10.00	4.46	5.36	21.48	25.78
II	0.64	0.90	10.00	4.46	5.36	2.56	3.07
III	4.10	0.88	11.52	4.29	5.16	15.47	18.62
IV	2.05	0.89	10.00	4.46	5.36	8.12	9.75

(1) WATERSHED AREA IDENTIFICATION

(2) AREA FROM DRAINAGE PLAN

(3) TIME OF CONCENTRATION: TC = T (OVERLAND) + T (GUTTER) (MINIMUM = 10 MIN.)

(4) RAINFALL INTENSITY, 100 YEAR STORM = CENTRAL DRAINAGE REGION TABLE 4–3: EASTSIDE INTENSITY EQUATIONS.

(5) RUNOFF COEFFICIENT

$$\text{WEIGHTED } C = \frac{\Sigma\, C_n\, A_n}{\Sigma\, A_n}$$

C= WEIGHTED RUNOFF COEFFICIENT
n= nth SUB–AREA
Cn= RUNOFF COEFFICIENT FOR THE nth SUB–AREA (TABLE 4–5 DRAINAGE DESIGN MANUAL)
An= nth SUB–AREA SIZE, IN ACRES

(6) $Q_{(\text{DESIGN STORM})} = C \times A \times I_{(\text{DESIGN STORM})}$

LEGEND:

3985	EXISTING CONTOURS
← < ←	℄ SWALE
XX	FINAL CONTOUR ELEVATION
■■■■	DRAINAGE WATERSHED LIMITS
H.P.	HIGH POINT
L.P.	LOW POINT
→	DRAINAGE FLOW DIRECTION
- ->	EXISTING DRAINAGE FLOW DIRECTION
FF=XXXX.XX	FINISHED FLOOR ELEVATION
I	DRAINAGE AREA

BENCHMARK:

CITY MONUMENT LOCATED AT THE INTERSECTION OF EDGEMERE BOULEVARD AND SIOUX DRIVE.

ELEVATION: 3907.27

FLOOD ZONE:

THE SUBJECT PROPERTY LIES WITHIN ZONE "C" AS DETAILED ON CITY OF EL PASO FLOOD INSURANCE RATE MAP No. 480214 0035B, DATED OCTOBER 15, 1982. ZONE "C" DESIGNATES AREAS OF MINIMAL FLOODING.

LEGAL DESCRIPTION:

A PORTION OF LOT 4, BLOCK 4, BASSETT COMMERCIAL COMPLEX UNIT THREE CITY OF EL PASO, EL PASO COUNTY, TEXAS

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MOBILE, (915) 539–7184

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EL PASO, TEXAS 79927
MR. ROBERT DIAZ DE LEON
(915) 852–3917

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PROJECT No. 1705

EXISTING DRAINAGE PLAN

C-7

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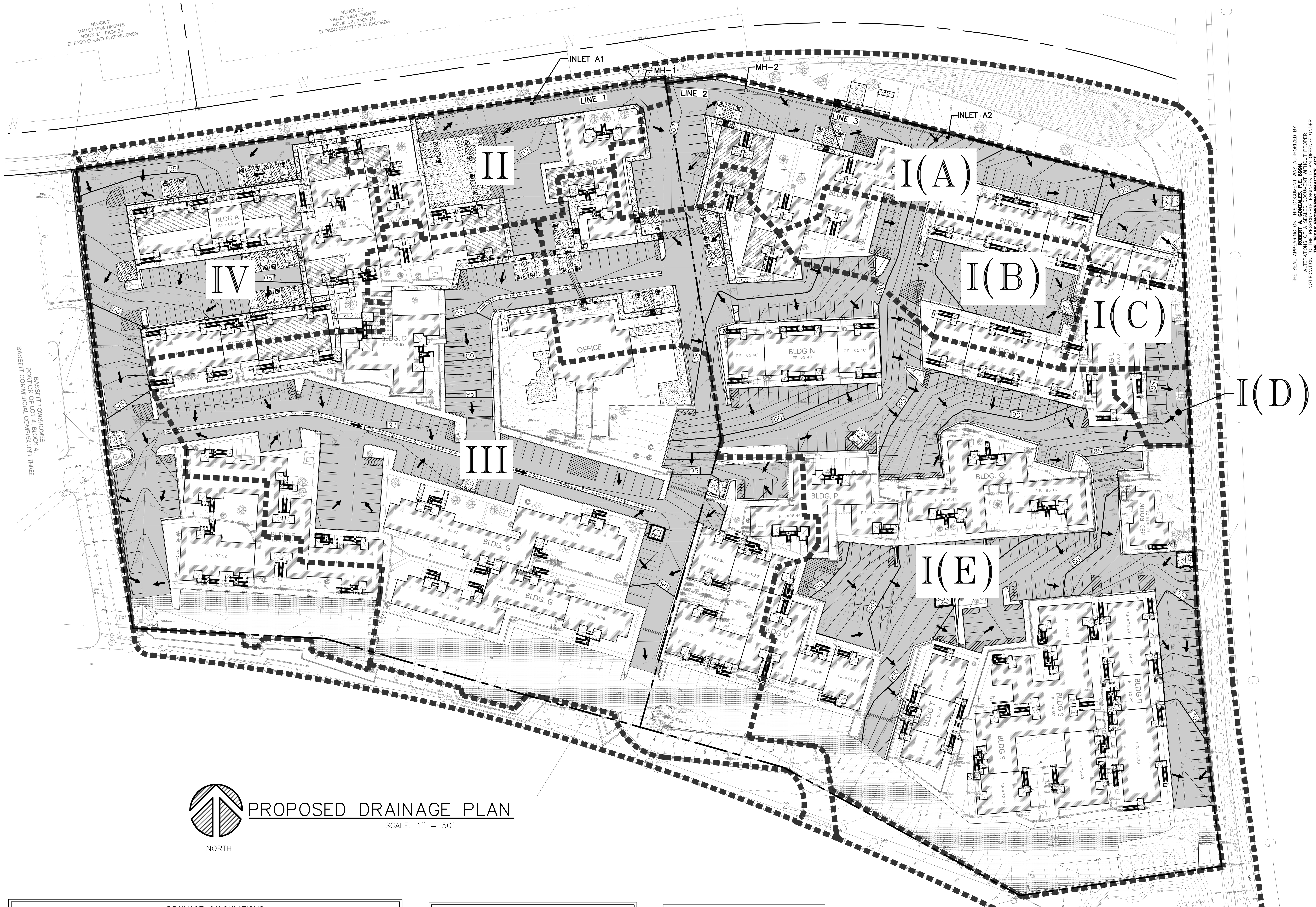
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ENVIRONMENTAL FINES RESULTING FROM HIS/HER WORK AND SHALL HOLD THE OWNER HARMLESS ON SUCH CASES.
10. EXISTING GAS MAINS CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING GAS MAINS (INCLUDING SERVICE LINES) FROM DAMAGE AS A RESULT OF THE CONSTRUCTION ACTIVITIES.
11. IN THE EVENT THAT EXISTING MAINS ARE IN CONFLICT WITH CONSTRUCTION – CONTRACTOR MUST COORDINATE WITH TEXAS GAS SERVICE COMPANY AND ALLOW 2 WEEKS WITHIN THE OWNER'S CONSTRUCTION SCHEDULE FOR RELOCATION OF HIGH PRESSURE GAS MAINS AND INTERMEDIATE GAS MAINS.
12. CALL FOR LINE SPOT BEFORE BEGINNING CONSTRUCTION OR EXCAVATION. TGS RECOMMENDS THAT CONTRACTOR CALL FOR LINE SPOTS PRIOR TO EXCAVATING IN THE AREA. IT IS REQUIRED THAT CONTRACTOR CALL TGS 48 HOURS PRIOR TO EXCAVATING THE AREA NEAR THE HIGH PRESSURE GAS MAIN.
13. UNDERGROUND/OVERHEAD UTILITIES SHOWN ON THE DRAWINGS ARE FOR DESIGN PURPOSES ONLY. OTHER UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE DRAWINGS. THE LOCATION, DEPTH, AND SIZE OF THE UTILITIES SHOWN, ARE FOR INFORMATION PURPOSES ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR.
14. SHOULD UNSTABLE SOIL CONDITION BE ENCOUNTERED DURING THE STORM DRAINAGE SYSTEM INSTALLATION. CONTRACTOR SHALL USE CEMENT STABILIZED BACKFILL.
15. CEMENT STABILIZED BACKFILL SHALL CONSIST OF 2 SACKS OF CEMENT PER CUBIC YARD OF SOIL.

THE EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION ON THIS DRAWING WAS OBTAINED FROM BROCK & BUSTILLOS INC. PROJECT CIVIL ENGINEER DOES NOT WARRANT THE ACCURACY OF THE EXISTING CONDITION INFORMATION.
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCIES NOTED SHALL BE REPORTED IMMEDIATELY TO THE PROJECT CIVIL ENGINEER. OTHERWISE, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS



PROPOSED DRAINAGE PLAN

SCALE: 1" = 50'

NORTH

DRAINAGE NOTES:

1. A DRAINAGE STUDY WAS NOT PERFORMED FOR THIS PROJECT.
2. A WATER HARVESTING DEPRESSION IS BEING PROPOSED "ON-SITE" WHICH WILL RETAIN A SMALL AMOUNT OF STORMWATER ON-SITE THUS, REDUCING THE DISCHARGE QUANTITIES INTO THE LINCOLN PARK DRAIN.
3. RUN-OFF QUANTITIES, STORMWATER RUNOFF COEFFICIENTS AND DRAINAGE FLOW PATTERNS WERE NOT ALTERED IN ANY WAY FROM ORIGINAL GRADING AND DRAINAGE SCHEME FOR THE SITE.
4. NO ADDITIONAL PIPES, DISCHARGE POINTS AND/OR ADDITIONAL STORMWATER RUNOFF, WILL BE CONNECTED TO OR BE PLACED INTO THE EXISTING LINCOLN PARK DRAIN.

DRAINAGE CALCULATIONS

$Q_{100} = C\ I\ A$

STORM DRAINAGE CALCULATIONS BASED ON A 50 YEAR STORM FREQUENCY.

WATERSHED AREA (1)	AREA (AC) (2)	C_W (5) (weighted developed coefficient)	t_C (min) (3)	i_{50} (in/hr) (3)	i_{100} (in/hr) (3)	Q_{50} (CFS) (6)	Q_{100} (CFS) (6)
I(A)	1.14	0.9	10.00	4.46	5.36	4.59	5.51
I(B)	0.64	0.9	10.00	4.46	5.36	2.55	3.06
I(C)	0.21	0.91	10.00	4.46	5.36	0.84	1.01
I(D)	0.10	0.93	10.00	4.46	5.36	0.42	0.50
I(E)	5.36	0.90	10.00	4.46	5.36	21.48	25.78
II	0.63	0.90	10.00	4.46	5.36	2.52	3.04
III	4.10	0.88	11.52	4.29	5.16	15.47	18.62
IV	2.05	0.89	10.00	4.46	5.36	8.12	9.75

(1) WATERSHED AREA IDENTIFICATION

(2) AREA FROM DRAINAGE PLAN

(3) TIME OF CONCENTRATION: TC = T (OVERLAND) + T (GUTTER) (MINIMUM = 10 MIN.)

(4) RAINFALL INTENSITY, 100 YEAR STORM = CENTRAL DRAINAGE REGION TABLE 4-3: EASTSIDE INTENSITY EQUATIONS.

(5) RUNOFF COEFFICIENT

$$\text{WEIGHTED } C = \frac{\Sigma C_n A_n}{\Sigma A_n}$$

C= WEIGHTED RUNOFF COEFFICIENT
n= nth SUB-AREA
Cn= RUNOFF COEFFICIENT FOR THE nth SUB-AREA (TABLE 4-5 DRAINAGE DESIGN MANUAL)
An= nth SUB-AREA SIZE, IN ACRES

(6) $Q_{(\text{DESIGN STORM})} = C \times A \times I_{(\text{DESIGN STORM})}$

LEGEND:

- 3985 — EXISTING CONTOURS
- ℄ SWALE
- XX — FINAL CONTOUR ELEVATION
- DRAINAGE WATERSHED LIMITS
- H.P. — HIGH POINT
- L.P. — LOW POINT
- DRAINAGE FLOW DIRECTION
- EXISTING DRAINAGE FLOW DIRECTION
- I — DRAINAGE AREA

BENCHMARK:

CITY MONUMENT LOCATED AT THE INTERSECTION OF EDGEMERE BOULEVARD AND SIOUX DRIVE.

ELEVATION: 3907.27

FLOOD ZONE:

THE SUBJECT PROPERTY LIES WITHIN ZONE "C" AS DETAILED ON CITY OF EL PASO FLOOD INSURANCE RATE MAP No. 480214 0035B,
DATED OCTOBER 15, 1982. ZONE "C" DESIGNATES AREAS OF MINIMAL FLOODING.

LEGAL DESCRIPTION:

A PORTION OF LOT 4, BLOCK 4,
BASSETT COMMERCIAL COMPLEX UNIT THREE
CITY OF EL PASO, EL PASO COUNTY, TEXAS

WARNING! BEFORE YOU DIG

COORDINATION WITH UTILITIES:

CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION AND/OR RELOCATION OF EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION WORK.

SOUTHERN UNION GAS CO.
4700 POLLARD STREET
EL PASO, TEXAS 79930
ARMANDO REDA, 680-7243

EL PASO ELECTRIC CO.
501 WEST SAN ANTONIO STREET
EL PASO, TEXAS 79901
MR. BILL ENGELS, (915) 543-4108
MOBILE, (915) 539-7184

EL PASO COUNTY WATER AUTHORITY
1539 PAWLING DRIVE
EL PASO, TEXAS 79927
MR. ROBERT DIAZ DE LEON
(915) 852-3917

SOUTHWESTERN BELL TELEPHONE
11200 PELLICANO DRIVE
EL PASO, TEXAS 79935
JOE GRANADOS
(915) 595-5140

TIME WARNER COMMUNICATIONS
#20 CONCORD STREET
EL PASO, TEXAS 79906
CONSTRUCTION, (915) 775-7414

TEXAS EXCAVATION SAFETY SYSTEM
ANYWHERE IN TEXAS
1-800-344-8377

QUANTUM engineering consultants incorporated
720 ARIZONA AVE.
El Paso TX 79902
P 915.532.7272
F 915.532.7373
Texas Registered Engineering Firm F-005146

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY **ROBERT A. GONZALES, P.E. 699N.**
ALTERATIONS OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER **THE TEXAS ENGINEERING PRACTICE ACT.**

STATE OF TEXAS
ROBERT A. GONZALES
69920
REGISTERED PROFESSIONAL ENGINEER
6/1/17

VILLA ALEGRE APARTMENTS

SITE IMPROVEMENTS

6412 EDGEMERE BOULEVARD

EL PASO TEXAS 79925

DATE: JUNE 2017

REVISED:

PHASE
100% CONSTRUCTION DOCUMENTS

mijares ● mora
ARCHITECTS INC.
111 N. FESTIVAL EL PASO, TEXAS 79912 915-542-1591

PROJECT No. 1705

PROPOSED DRAINAGE PLAN

C-8

Jun 02,2017 4:17pm broj
Q:\Active Drawings\1712 Villa Alegre Apts\Civil\60% CD 5-24-17\C-8 Proposed Drainage Plan.dwg

GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE PROJECT SITE PRIOR TO SUBMITTING HIS BID.

2. THE CONTRACTOR SHALL SCHEDULE AND PERFORM HIS WORK SO AS TO INSURE THE SAFE AND SUFFICIENT PASSAGE OF STORMWATER RUNOFF DURING THE COURSE OF HIS OPERATIONS. ALL REQUIRED LABOR, TOOLS, EQUIPMENT, AND SUPERVISION SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER.

3. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE OWNER, ALL AFFECTED UTILITY COMPANIES, AND ALL OTHER ENTITIES HAVING JURISDICTION OVER THE PROJECT. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL COORDINATION EFFORTS WITH EACH RESPECTIVE UTILITY COMPANY FOR ALL RELOCATIONS, REMOVALS AND/OR REPLACEMENTS OF ANY UTILITY SERVICE LINES OR MAINS. ADDITIONALLY, THE CONTRACTOR SHALL MAKE THE APPROPRIATE ARRANGEMENTS FOR UTILITY CONNECTIONS AND/OR HOOK-UPS TO PROVIDE THE NECESSARY POWER OR SERVICE TO NEW UTILITY INSTALLATIONS AND OBTAIN ALL INSPECTIONS, APPROVALS OR ACCEPTANCES OF THESE FACILITIES.

4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCIES NOTED SHALL BE REPORTED IMMEDIATELY TO THE PROJECT CIVIL ENGINEER. OTHERWISE, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS.

5. VIBRATORY ROLLERS SHALL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT.

6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL CURRENT SAFETY CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO, OSHA REQUIREMENTS.

7. THE EXISTING TOPOGRAPHIC/BOUNDARY INFORMATION ON THIS DRAWING WAS OBTAINED FROM BROCK AND BUSTILLOS, INC. PROJECT CIVIL ENGINEER DOES NOT WARRANT THE ACCURACY OF THIS INFORMATION.

8. WARNING! BEFORE EXCAVATING, CONTRACTOR SHALL LOCATE AND PROTECT ALL UNDERGROUND UTILITY LINES. CONTRACTOR SHALL REPLACE ANY UTILITIES DAMAGED DURING CONSTRUCTION, AT NO ADDITIONAL COST TO OWNER.

9. CONTRACTOR SHALL WATER CONSTRUCTION SITE AREA A MINIMUM OF TWICE A DAY TO KEEP DUST TO A MINIMUM – ONCE IN THE MORNING AND ONCE IN THE AFTERNOON. THIS SHALL ALSO BE DONE ON WEEKENDS AND HOLIDAYS.

10. CONTRACTOR SHALL PREVENT THE EROSION OF SILT, SEDIMENT, AND DEBRIS FROM THE CONSTRUCTION SITE ONTO ADJACENT PROPERTIES AND STREETS. THIS MAY BE ACCOMPLISHED THROUGH THE USE OF A GEOTEXTILE FABRIC SILT FENCE OR OTHER APPROVED MEANS.

11. FILL MATERIALS FOR SITE GRADING AND BACKFILL MAY CONSIST OF ONSITE AND/OR IMPORTED MATERIALS AS LONG AS THEY MEET THE REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING IMPROVEMENTS IN THE PROJECT AREA AND ITS VICINITY. ANY DAMAGES RESULTING FROM CONTRACTOR'S WORK OR VANDALISM SHALL BE REPAIRED TO ITS ORIGINAL CONDITION BY CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL SUBMIT A SAFETY CONTROL PLAN TO PROTECT EXISTING BUILDINGS AND STRUCTURES TO REMAIN, PEDESTRIANS AND FACILITY USERS.

13. CONTRACTOR SHALL INSURE THE FOLLOWING: ALL ACCESSIBLE ROUTES SHALL NOT EXCEED A RUNNING SLOPE GREATER THAN 1:20. NO WHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:50. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS. NEW WHEELCHAIR RAMPS SHALL NOT EXCEED A SLOPE OF 1:12.

14. GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW AND COORDINATE THE ENTIRE SET OF DRAWINGS AND PROJECT MANUAL TO ESTABLISH PROJECT COST.

15. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS DURING CONSTRUCTION ACTIVITY.

16. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ENVIRONMENTAL FINES RESULTING FROM HIS/HER WORK AND SHALL HOLD THE OWNER HARMLESS IN SUCH CASES.

17. EXISTING TREES & SHRUBS AS SHOWN HEREIN, SHALL BE REMOVED TO ACCOMMODATE NEW IMPROVEMENTS IF NECESSARY.

18. THE CONTRACTOR SHALL EXERCISE CARE TO PRESERVE THE NATURAL LANDSCAPE AT THE AREAS MARKED AS "TO REMAIN UNDISTURBED," AND SHALL CONDUCT THIER CONSTRUCTION OPERATION SO AS TO PREVENT ANY DAMAGE TO EXISTING FEATURES. EXCEPT WHERE CLEARING IS REQUIRED FOR PERMANENT WORK AND FOR EXCAVATION OPERATIONS, TREES, NATIVE SHRUBBERY, AND VEGETATION SHALL BE PROTECTED FROM DAMAGE WHICH MAY BE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS AND EQUIPMENT.

19. EXISTING TREES, PLANTS, OR SHRUBS TO BE REMOVED, SALVAGED AND REPLANTED AT A LOCATION DESIGNATED BY THE OWNER. A "TREE SPADE" SHALL BE USED TO PERFORM THE REPLANTING OPERATIONS FOR EXISTING TREES. ANY TREE GREATER THAN 6" IN DIAMETER SHALL BE REMOVED AND NOT REPLANTED. THESE TREES SHALL BE REPLACED WITH AN EQUIVALENT NUMBER OF SMALLER DIAMETER TREES. (FOR EXAMPLE A 6"ø TREE, CAN BE REPLACED WITH THREE 2" DIAMETER TREES). THERE IS NO GUARANTEE THAT ANY EXISTING TREES, PLANTS AND SHRUBS WILL SURVIVE THE TRANSPLANTING. SHOULD EXISTING VEGETATION NOT SURVIVE THE TRANSPLANTING, THE CONTRACTOR SHALL REPLACE THE PLANTS, TREES OR SHRUBS WITH AN EQUIVALENT REPLACEMENT.

20. CONTRACTOR TO CONSULT WITH PROJECT ENGINEER PRIOR TO COMMENCEMENT OF THE DEMOLITION WORK.

21. EXISTING GAS MAINS MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING GAS MAINS (INCLUDING SERVICE LINES) FROM DAMAGE AS A RESULT OF THE DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR TO COORDINATE WITH THE TEXAS GAS SERVICE (TGS) AS NECESSARY.

22. IN THE EVENT THAT EXISTING MAINS ARE IN CONFLICT WITH CONSTRUCTION CONTRACTOR MUST COORDINATE WITH TEXAS GAS SERVICE COMPANY AND ALLOW 2 WEEKS WITHIN THE OWNER'S SCHEDULE FOR RELOCATION OF HIGH PRESSURE GAS MAINS AND INTERMEDIATE GAS MAINS.

23. CALL FOR LINE SPOT BEFORE BEGINNING CONSTRUCTION OR EXCAVATION. TGS RECOMMENDS THAT CONTRACTOR CALL FOR LINE SPOTS PRIOR TO EXCAVATING IN THE AREA. IT IS REQUIRED THAT CONTRACTOR CALL TGS 48 HOURS PRIOR TO EXCAVATING THE AREA NEAR HIGH PRESSURE GAS MAINS.

24. UNDERGROUND/OVERHEAD UTILITIES SHOWN ON THE DRAWINGS ARE FOR DESIGN PURPOSES ONLY. OTHER UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE DRAWINGS. THE LOCATION, DEPTH, AND SIZE OF THE UTILITIES SHOWN, ARE FOR INFORMATION PURPOSES ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL USE EXTREME CAUTION WHILE GRADING AND/OR CONSTRUCTION OF IMPROVEMENTS IN AREAS WHERE OVERHEAD POWERLINES OR GUY WIRES EXIST. CONTRACTOR SHALL CONSULT WITH THE EPEC AND/OR OTHER UTILITY COMPANIES HAVING JURISDICTION WHEN WORKING IN THE GENERAL VICINITY OR BELOW THE OVERHEAD LINES OR GUY WIRES, ESPECIALLY WITH HEAVY EQUIPMENT. CONTRACTOR SHALL NOT DISTURB POWER POLES, GUY WIRES, GUY WIRE ANCHORS OR LINES WITHOUT CONSULTING WITH THE EL PASO ELECTRIC COMPANY OR OTHERS HAVING JURISDICTION.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO, SANITARY SEWER, DOMESTIC WATER, FIRE PROTECTION, IRRIGATION LINES AND ASSOCIATED APPURTENANCES, GAS, ELECTRICAL AND FIBER OPTICS. THE CONTRACTOR SHALL REMOVE AND RELOCATE UTILITIES AS NECESSARY TO ACCOMMODATE NEW IMPROVEMENTS. A COPY OF THE EXISTING UTILITY "AS-BUILTS" CAN BE PROVIDED TO THE CONTRACTOR BY THE ALL ENTITIES HAVING JURISDICTION OVER THE PROJECT.

26. EXISTING CLEAN OUTS, VALVES, MANHOLES, UTILITY VAULTS, ETC., TO BE ADJUSTED TO MATCH NEW FINISHED GRADES. CONTRACTOR MUST COORDINATE WITH OWNER OR DESIGNATED REPRESENTATIVE, AND UTILITY COMPANY(S) HAVING JURISDICTION. CONTRACTOR SHALL REPLACE THESE ITEMS TO SIT FLUSH WITH TOP OF THE NEW PAVEMENT SURFACE.

WARNING! BEFORE YOU DIG

COORDINATION WITH UTILITIES:

CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION AND/OR RELOCATION OF EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION WORK.

EL PASO ELECTRIC CO.
501 WEST SAN ANTONIO STREET
EL PASO, TEXAS 79901
(915) 543-5970

AT&T INCORPORATED
11200 PELLICANO DRIVE
EL PASO, TEXAS 79935
(800) 344-8377
(800) 252-1133 (FIBER OPTIC)

TEXAS EXCAVATION SAFETY SYSTEM
ANYWHERE IN TEXAS
(800) 344-8377

TEXAS GAS SERVICE
4700 POLLARD STREET
EL PASO, TEXAS 79930
(915) 680-7329

E.P.I.S.D.
6531 BOEING DR.
EL PASO, TEXAS 79925
(915) 887-5406

TIME WARNER COMMUNICATIONS
#20 CONCORD STREET
EL PASO, TEXAS 79906
(915) 775-7414

EL PASO WATER UTILITIES PUBLIC SERVICE BOARD
1154 HAWKINS BLVD. EL PASO, TEXAS 79925
(915) 594-5528

LEGEND:

4012 — EXISTING CONTOURS
XX — NEW FINAL CONTOUR ELEVATION
NEW DRAINAGE FLOW DIRECTION
EXISTING DRAINAGE FLOW DIRECTION
H.P. — HIGH POINT
L.P. — LOW POINT
PROPOSED ASPHALT PAVEMENT AS SPECIFIED
PROPOSED CONCRETE PAVEMENT/SIDEWALK AS SPECIFIED
ADA ACCESSIBLE BUILDING
EXISTING BUILDING FOOTPRINT

BENCHMARK:
CITY MONUMENT LOCATED AT THE INTERSECTION OF EDGEMERE BOULEVARD AND SIOUX DRIVE.

ELEVATION: 3907.27

FLOOD ZONE:
THE SUBJECT PROPERTY LIES WITHIN ZONE "C" AS DETAILED ON CITY OF EL PASO FLOOD INSURANCE RATE MAP No. 480214 0035B, DATED OCTOBER 15, 1982.
ZONE "C" DESIGNATES AREAS OF MINIMAL FLOODING.

LEGAL DESCRIPTION:
A PORTION OF LOT 4, BLOCK 4, BASSETT COMMERCIAL COMPLEX UNIT THREE CITY OF EL PASO, EL PASO COUNTY, TEXAS

THE EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION ON THIS DRAWING WAS OBTAINED FROM BROCK & BUSTILLOS INC. PROJECT CIVIL ENGINEER DOES NOT WARRANT THE ACCURACY OF THE EXISTING CONDITION INFORMATION.
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCIES NOTED SHALL BE REPORTED IMMEDIATELY TO THE PROJECT CIVIL ENGINEER. OTHERWISE, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS

NORTH

MASTER GRADING PLAN

SCALE: 1" = 50'

Jun 02,2017 4:18pm broj
Q:\Active Drawings\1712 Villa Alegre Apts\Civil\60% CD 5-24-17\C-9 Master Grading Plan.dwg

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY **ROBERT A. GONZALES, P.E. 699N.**
ALTERATIONS OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER **THE TEXAS ENGINEERING PRACTICE ACT.**

STATE OF TEXAS
ROBERT A. GONZALES
69920
REGISTERED PROFESSIONAL ENGINEER
6/4/17

VILLA ALEGRE APARTMENTS
SITE IMPROVEMENTS
6412 EDGEMERE BOULEVARD
EL PASO TEXAS 79925

DATE: JUNE 2017

REVISED:

PHASE
100% CONSTRUCTION DOCUMENTS

QUANTUM engineering consultants incorporated
720 ARIZONA AVE.
El Paso TX 79902
P 915.532.7272
F 915.532.7373
Texas Registered Engineering Firm F-005146

mijares • mora
ARCHITECTS INC.
111 N. FESTIVAL EL PASO, TEXAS 79912 915-542-1591

PROJECT No. 1705

MASTER GRADING PLAN

C-9

9 OF 28

KEY NOTES

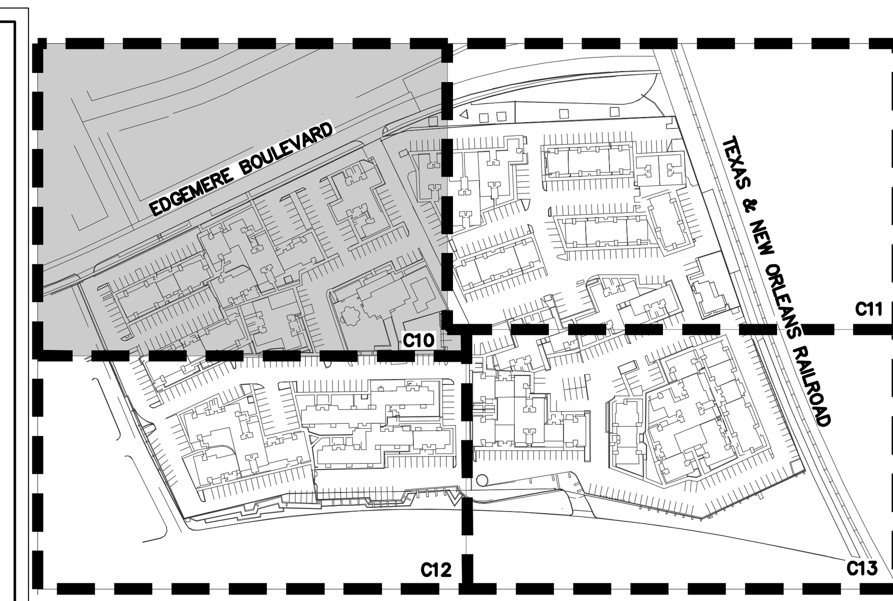
1. MATCH EXISTING ELEVATIONS.
2. NEW CONCRETE CURB AND GUTTER. REFER TO DETAIL SHEET C–21.
3. LIMITS OF NEW CURB AND GUTTER. MATCH EXISTING CURB AND GUTTER ELEVATIONS.
4. NEW CONCRETE HEADER CURB. REFER TO DETAIL ON SHEET C–21.
5. NEW ASPHALT PAVEMENT. REFER TO DETAIL ON SHEET C–21.
6. LIMITS OF NEW ASPHALT PAVEMENT. MATCH EXISTING ASPHALT PAVEMENT ELEVATIONS.
7. NEW ASPHALT PAVEMENT TERMINUS. REFER TO DETAIL ON SHEET C–21. TOP OF NEW PAVEMENT SHALL BE FLUSH WITH EXISTING PAVEMENT.
8. NEW CONCRETE SIDEWALK 2% MAX CROSS SLOPE AND 0.5% MIN CROSS SLOPE FOR DRAINAGE. REFER TO DETAIL ON SHEET C–21.
9. LIMITS OF NEW CONCRETE SIDEWALK. TOP NEW SIDEWALK SHALL BE FLUSH TO TOP OF EXISTING SIDEWALK. EXPANSION MATERIAL REQUIRED AT JUNCTURE TO ALL EXISTING SIDEWALKS.
10. NEW WHEELCHAIR RAMP. REFER TO VILLA ALEGRE APARTMENT COMPLEX ADA IMPROVEMENTS FOR THE HOUSING AUTHORITY OF THE CITY OF EL PASO BY FOKUS ON ARCHITECTURE, INC. (SEPARATE PROJECT).
11. NEW 7" THICK REINFORCED CONCRETE PAVEMENT DUMPSTER PAD. REFER TO DETAILS SHEET C–21.
12. NEW CONCRETE SWALE AT ASPHALT PAVEMENT. REFER TO DETAIL ON SHEET C–21.
13. NEW CONCRETE PICNIC PAD. REFER TO ARCHITECTURAL DRAWINGS.
14. NEW 6" CONCRETE WALL. REFER TO STRUCTURAL DRAWINGS.
15. NEW GUARD POST. REFER TO DETAILS ON SHEET C–21.
16. NEW 3' DIAMOND PLATE COVERED CONCRETE FLUME. REFER TO DETAIL SHEET C–22.
17. NEW PEDESTRIAN CROSSWALK. REFER TO VILLA ALEGRE APARTMENT COMPLEX ADA IMPROVEMENTS FOR THE HOUSING AUTHORITY OF THE CITY OF EL PASO BY FOKUS ON ARCHITECTURE, INC. (SEPARATE PROJECT).
18. NEW ADA PARKING STALLS 2% MAX SLOPE EACH WAY. REFER TO VILLA ALEGRE APARTMENT COMPLEX ADA IMPROVEMENTS FOR THE HOUSING AUTHORITY OF THE CITY OF EL PASO BY FOKUS ON ARCHITECTURE, INC. (SEPARATE PROJECT).
19. REFER TO ARCHITECTURAL DRAWINGS FOR STRIPING PLAN AND DETAILS.
20. EXISTING BOLLARDS SHALL NOT BE DISTURBED.
21. EXISTING STEPS SHALL NOT BE DISTURBED.
22. EXISTING WALL OPENING SHALL NOT BE DISTURBED.
23. NEW STORMWATER 12" PIPE. REFER TO SHEET C–8 FOR ADDITIONAL DETAILS.
24. NEW 1 GRATE DRAINAGE INLET. REFER TO SHEET C–8 FOR ADDITIONAL INFORMATION AND DETAIL ON SHEET C–22.
25. EXISTING STORMWATER INLETS SHALL NOT BE DISTURBED. CONTRACTOR SHALL INSTALL 2 SAC CEMENT AROUND INLET AS SHOWN ON DETAIL SHEET C–21 WHERE ASPHALT IS TO BE REPLACED.
26. EXISTING STORMWATER PIPE SYSTEMS SHALL NOT BE DISTURBED.
27. EXISTING WROUGHT IRON FENCE SHALL BE REMOVED AND RELOCATED IN PLACE TO ACCOMMODATE NEW IMPROVEMENTS WHERE NECESSARY. CONTRACTOR SHALL COORDINATE WITH ARCHITECT TO DETERMINE WHERE THIS SHALL OCCUR.
28. NEW SPEED HUMPS. REFER TO DETAIL ON SHEET C–22.
29. NEW 6" STANDARD ROCKWALL. REFER TO STRUCTURAL DRAWINGS.
30. WATER HARVESTING DEPRESSION.
31. NEW 6" THICK CONCRETE DRIVEWAY WITH REINFORCEMENT. REFER TO DETAIL ON SHEET C–21.
32. LIMITS OF MODIFIED EXISTING RETAINING ROCKWALL. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND LIMITS.

THE EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION ON THIS DRAWING WAS OBTAINED FROM BROCK & BUSTILLOS INC. PROJECT CIVIL ENGINEER DOES NOT WARRANT THE ACCURACY OF THE EXISTING CONDITION INFORMATION.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCIES NOTED SHALL BE REPORTED IMMEDIATELY TO THE PROJECT CIVIL ENGINEER. OTHERWISE, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS

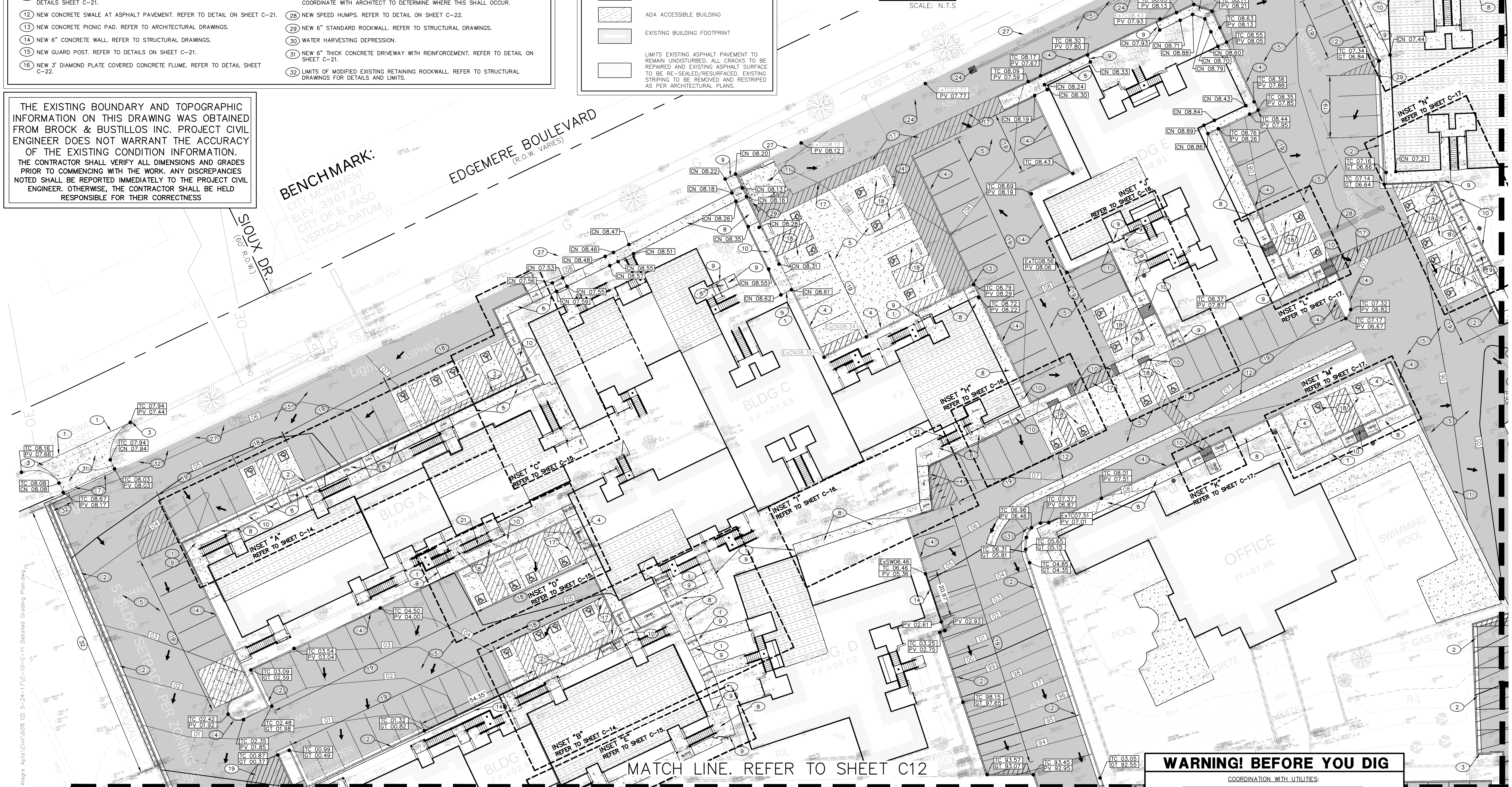
LEGEND

- 4012 — EXISTING CONTOURS
- XX — NEW FINAL CONTOUR ELEVATION
- NEW DRAINAGE FLOW DIRECTION
- EXISTING DRAINAGE FLOW DIRECTION
- H.P. — HIGH POINT
- L.P. — LOW POINT
- PROPOSED ASPHALT PAVEMENT AS SPECIFIED
- PROPOSED CONCRETE PAVEMENT/SIDEWALK AS SPECIFIED
- PROPOSED FLUME
- ADA ACCESSIBLE BUILDING
- EXISTING BUILDING FOOTPRINT
- LIMITS EXISTING ASPHALT PAVEMENT TO REMAIN UNDISTURBED. ALL CRACKS TO BE REPAIRED AND EXISTING ASPHALT SURFACE TO BE RE-SEALED/RESURFACED. EXISTING STRIPING TO BE REMOVED AND RESTRIPED AS PER ARCHITECTURAL PLANS.



KEY MAP

SCALE: N.T.S



DETAILED GRADING PLAN (1 OF 4)

SCALE: 1" = 20'

WARNING! BEFORE YOU DIG

COORDINATION WITH UTILITIES:

CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION AND/OR RELOCATION OF EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION WORK.

EL PASO ELECTRIC CO.
501 WEST SAN ANTONIO STREET
EL PASO, TEXAS 79901
(915) 543–5970

AT&T INCORPORATED
11200 PELLICANO DRIVE
EL PASO, TEXAS 79935
(800) 344–8377
(800) 252–1133 (FIBER OPTIC)

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EL PASO, TEXAS 79930
(915) 680–7329

HOUSING AUTHORITY OF THE CITY OF EL PASO
5300 EAST PAISANO DR.
EL PASO, TEXAS 79905
(915) 849–3742

TIME WARNER COMMUNICATIONS
#20 CONCORD STREET
EL PASO, TEXAS 79906
(915) 775–7414

EL PASO WATER UTILITIES PUBLIC SERVICE BOARD
1154 HAWKINS BLVD. EL PASO, TEXAS 79925
(915) 594–5528

QUANTUM engineering consultants incorporated
720 ARIZONA AVE.
El Paso TX 79902
P 915.532.7272
F 915.532.7373
Texas Registered Engineering Firm F-005146

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STATE OF TEXAS
ROBERT A. GONZALES
69920
REGISTERED PROFESSIONAL ENGINEER
6/14/17

VILLA ALEGRE APARTMENTS

SITE IMPROVEMENTS

6412 EDGEMERE BOULEVARD

EL PASO TEXAS 79925

DATE: JUNE 2017

REVISED:

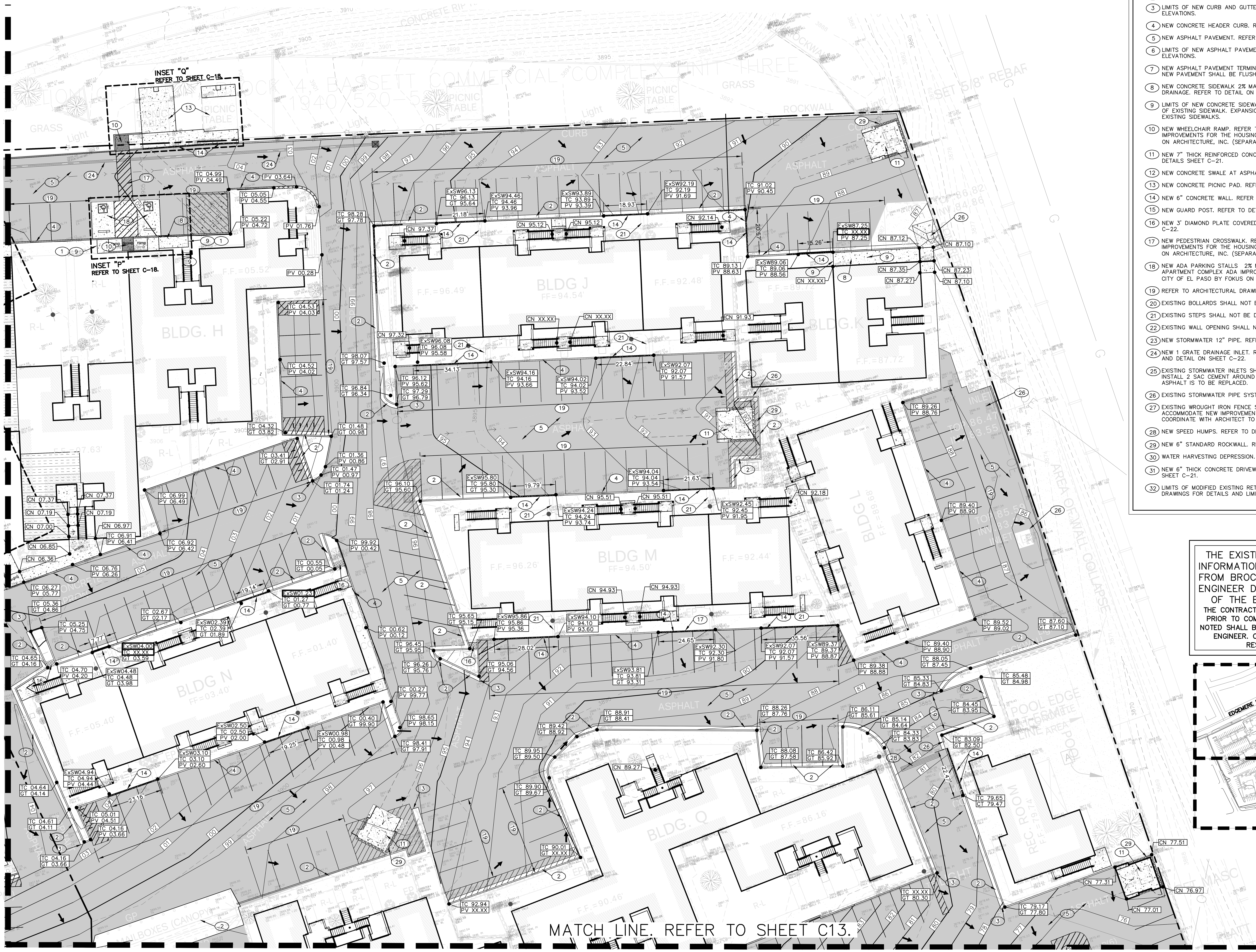
PHASE: 100% CONSTRUCTION DOCUMENTS

mijares ● mora
ARCHITECTS INC.
111 N. FESTIVAL EL PASO, TEXAS 79912 915-542-1591

PROJECT No. 1705

DETAILED GRADING PLAN (1 OF 4)

C-10



DETAILED GRADING PLAN (2 OF 4)

SCALE: 1" = 20'

NORTH

KEY NOTES

1. MATCH EXISTING ELEVATIONS.
2. NEW CONCRETE CURB AND GUTTER. REFER TO DETAIL SHEET C–21.
3. LIMITS OF NEW CURB AND GUTTER. MATCH EXISTING CURB AND GUTTER ELEVATIONS.
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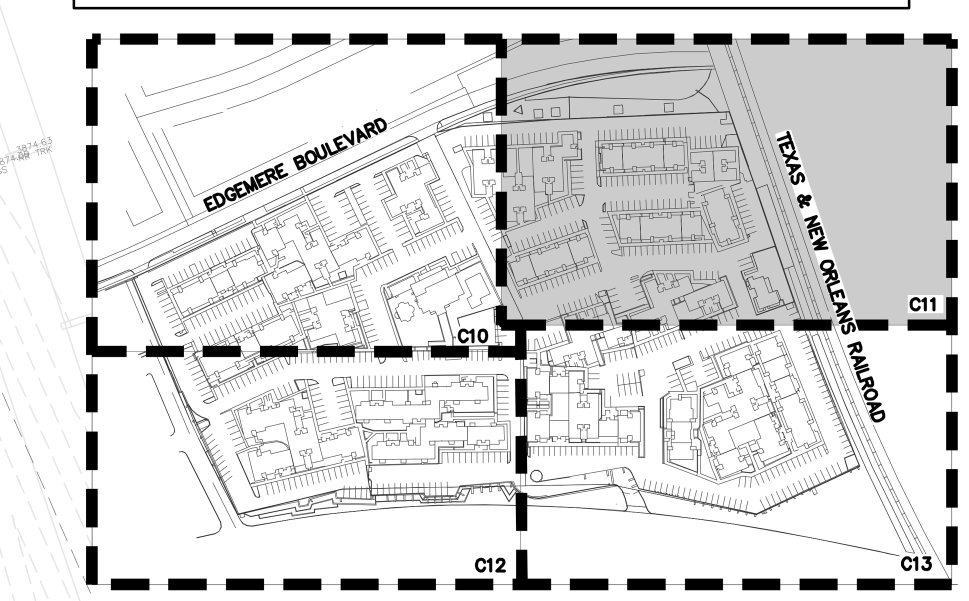

KEY MAP

SCALE: N.T.S

ROBERT A. GONZALES 69920 STATE OF TEXAS REGISTERED PROFESSIONAL ENGINEER

6/4/17

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SITE IMPROVEMENTS

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QUANTUM engineering consultants incorporated
720 ARIZONA AVE. El Paso TX 79902
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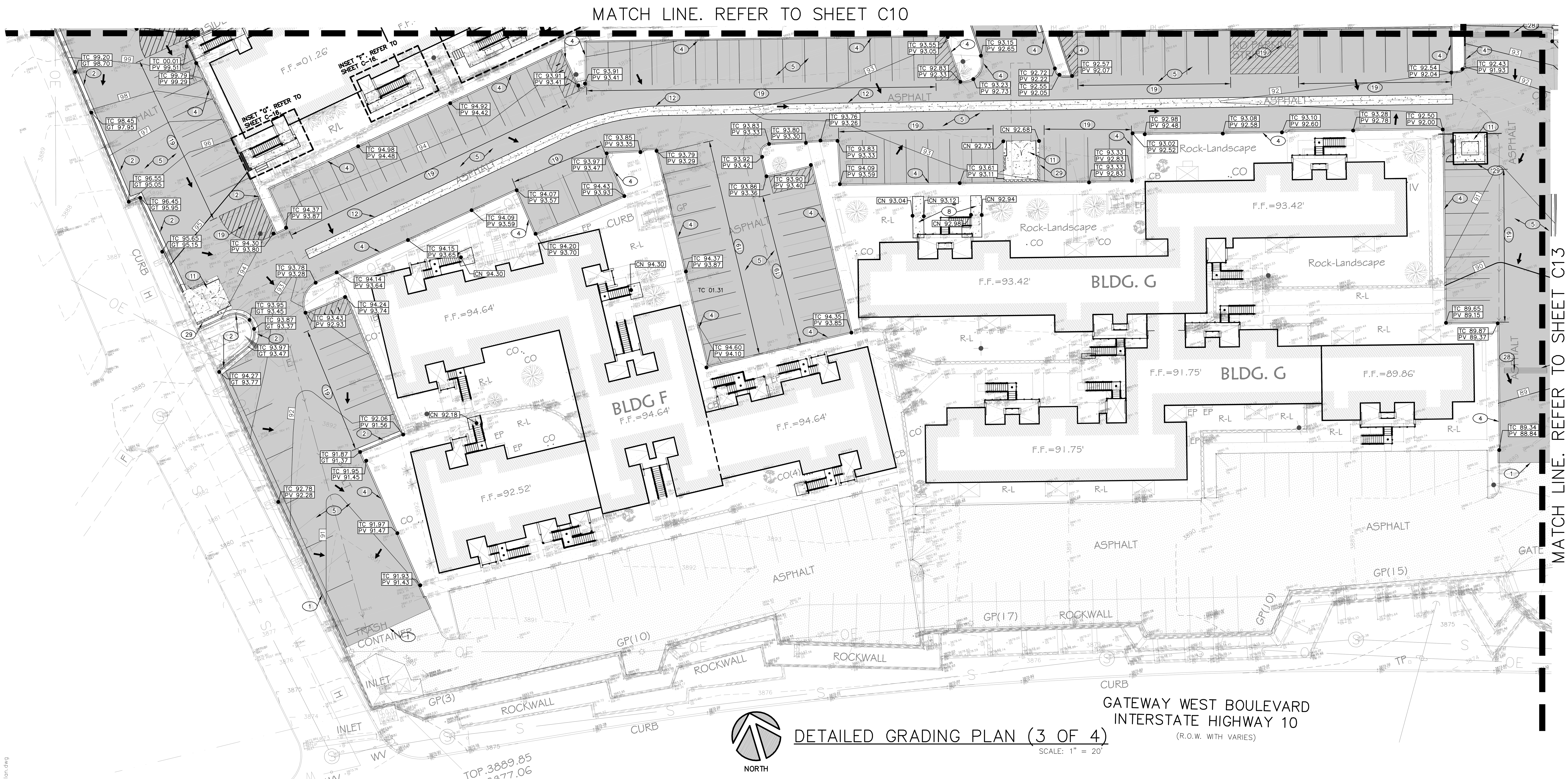
Texas Registered Engineering Firm F-005146

PROJECT No. 1705

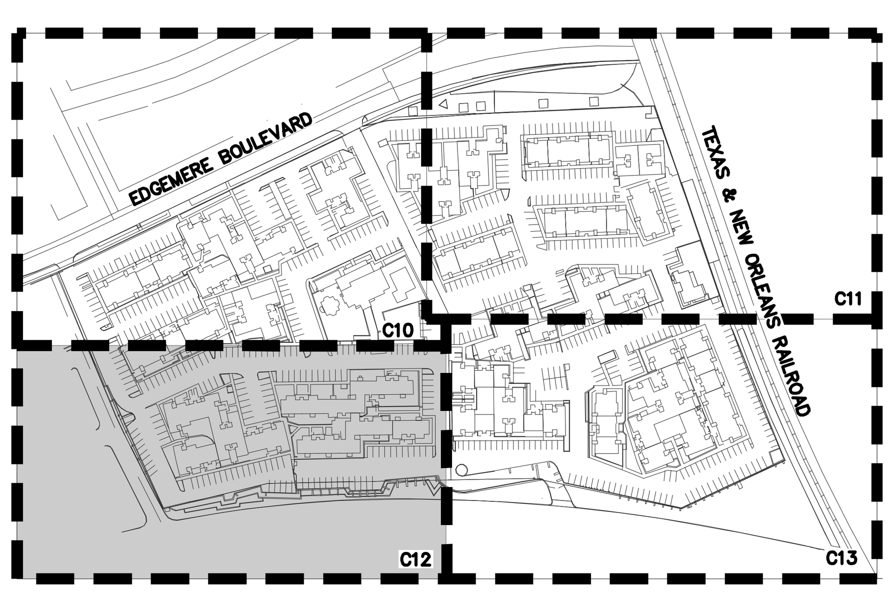
DETAILED GRADING PLAN (2 OF 4)

C-11



DETAILED GRADING PLAN (3 OF 4)

SCALE: 1" = 20'



KEY MAP
SCALE: N.T.S

LEGEND

4012	EXISTING CONTOURS
XX	NEW FINAL CONTOUR ELEVATION
	NEW DRAINAGE FLOW DIRECTION
	EXISTING DRAINAGE FLOW DIRECTION
H.P.	HIGH POINT
L.P.	LOW POINT
	PROPOSED ASPHALT PAVEMENT AS SPECIFIED
	PROPOSED CONCRETE PAVEMENT/SIDEWALK AS SPECIFIED
	PROPOSED FLUME
	ADA ACCESSIBLE BUILDING
	EXISTING BUILDING FOOTPRINT
	LIMITS EXISTING ASPHALT PAVEMENT TO REMAIN UNDISTURBED. ALL CRACKS TO BE REPAIRED AND EXISTING ASPHALT SURFACE TO BE RE-SEALED/RESURFACED. EXISTING STRIPING TO BE REMOVED AND RESTRIPED AS PER ARCHITECTURAL PLANS.

KEY NOTES

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WARNING! BEFORE YOU DIG

COORDINATION WITH UTILITIES:

CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION AND/OR RELOCATION OF EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION WORK.

EL PASO ELECTRIC CO.
501 WEST SAN ANTONIO STREET
EL PASO, TEXAS 79901
(915) 543–5970

AT&T INCORPORATED
11200 PELLICANO DRIVE
EL PASO, TEXAS 79935
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69920
REGISTERED PROFESSIONAL ENGINEER
6/1/17

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SITE IMPROVEMENTS
6412 EDGEMERE BOULEVARD
EL PASO TEXAS 79925

DATE: JUNE 2017

REVISED:

PHASE
100% CONSTRUCTION DOCUMENTS

mijares ● mora
ARCHITECTS INC.
111 N. FESTIVAL EL PASO, TEXAS 79912 915-542-1591

PROJECT No. 1705

DETAILED GRADING PLAN (3 OF 4)

C-12

Jun 02,2017 4:27pm broj
Q:\Active Drawings\1712 Villa Alegre Apts\Civil\60% CD 5-24-17\C-12-13 Detailed Grading Plan.dwg

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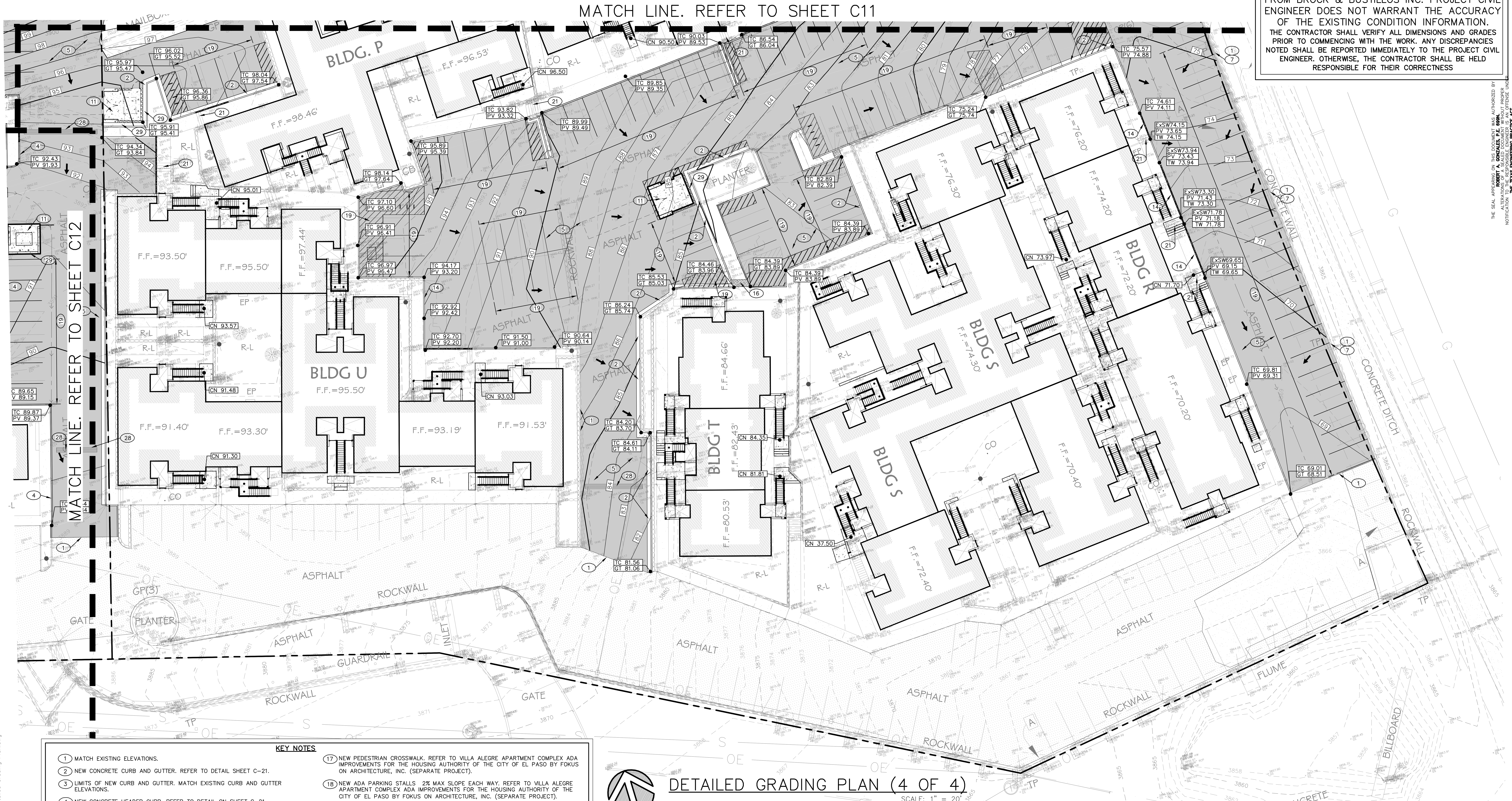

DETAILED GRADING PLAN (4 OF 4)

SCALE: 1" = 20'

NORTH

GATEWAY WEST BOULEVARD
INTERSTATE HIGHWAY 10
(R.O.W. WITH VARIES)

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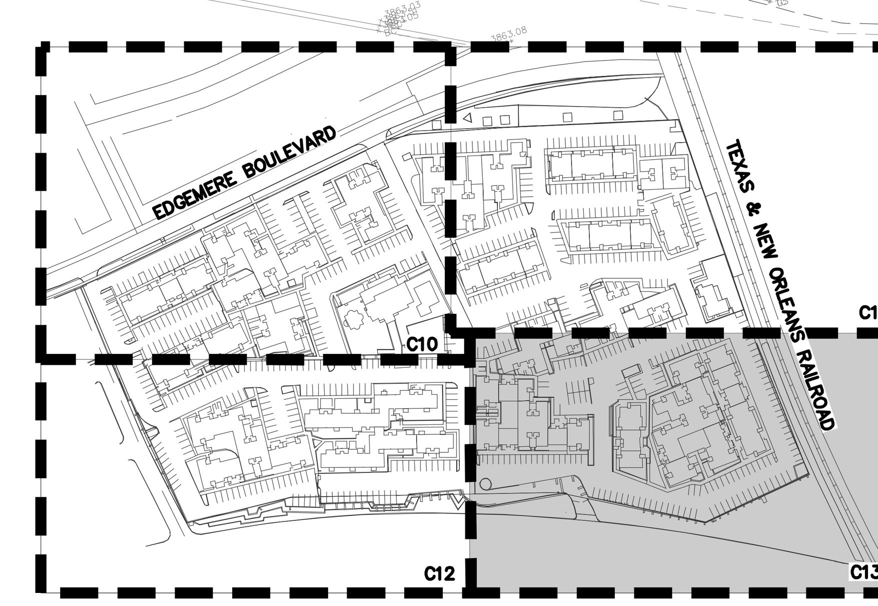

KEY MAP
SCALE: N.T.S

QUANTUM
engineering consultants incorporated
720 ARIZONA AVE.
El Paso TX 79902
P 915.532.7272
F 915.532.7373
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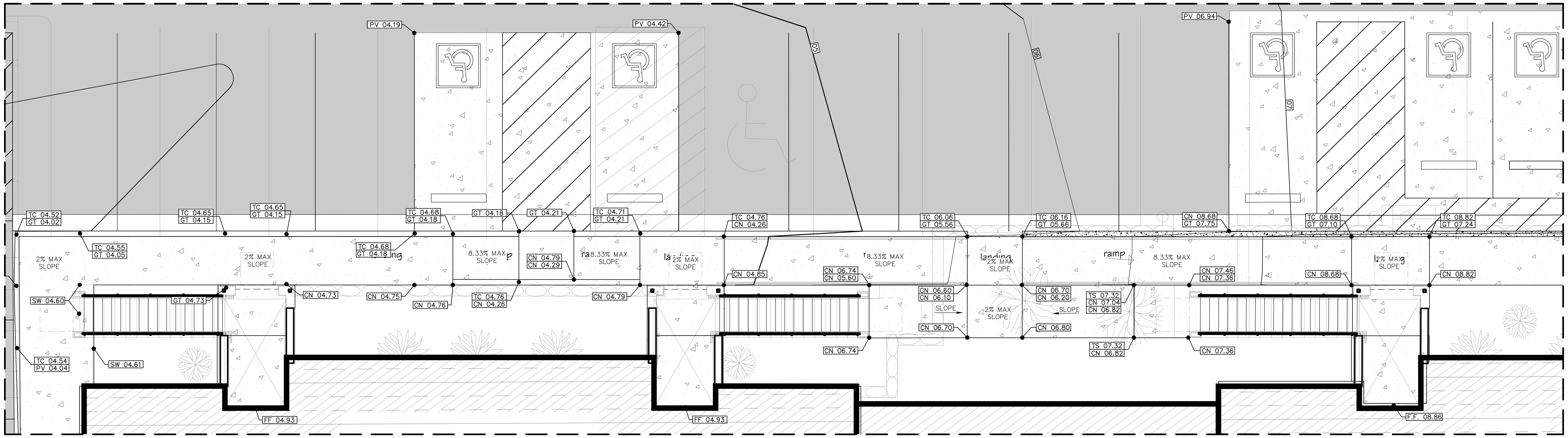
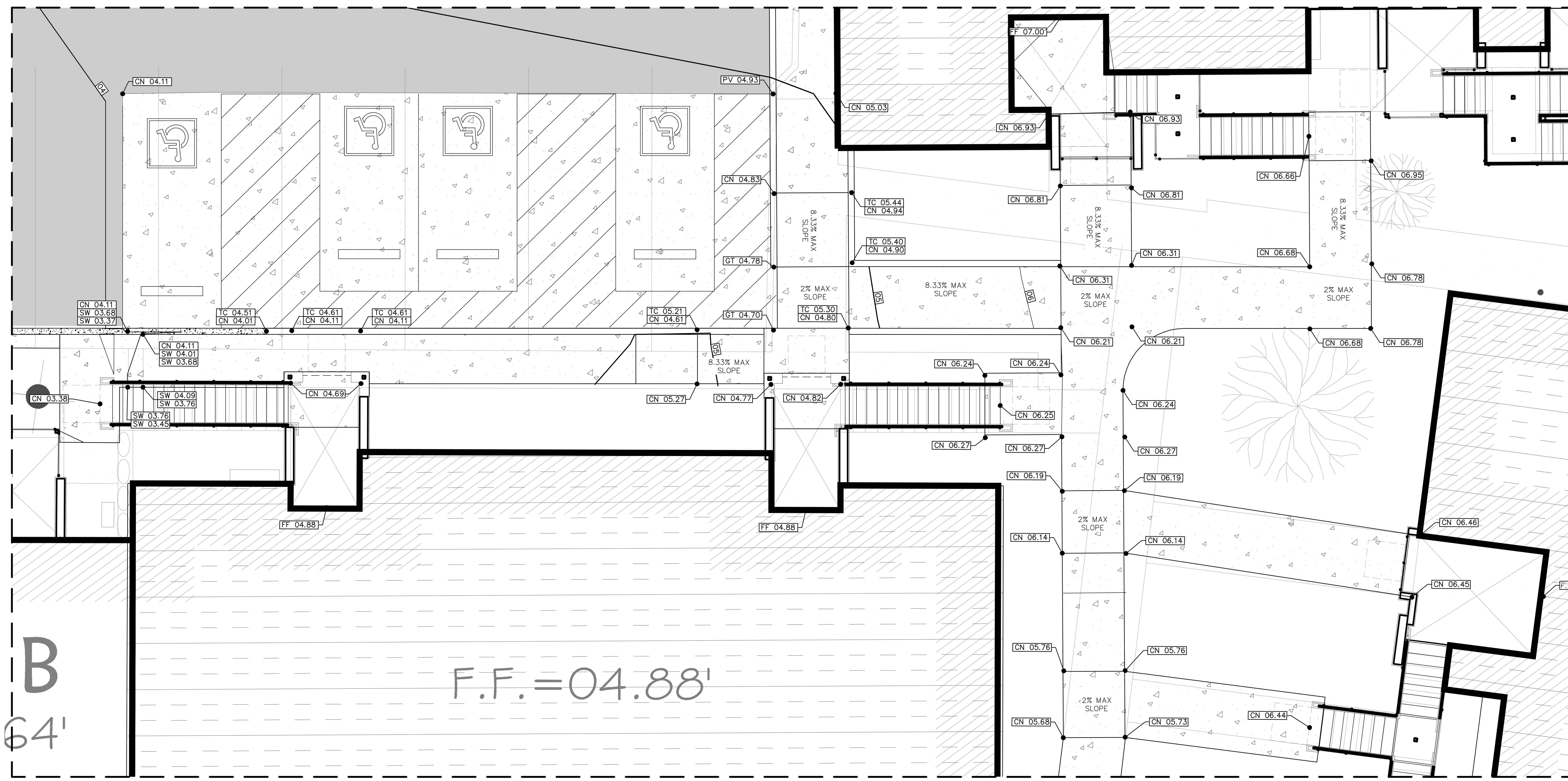
ARCHITECTS INC.
111 N. FESTIVAL EL PASO, TEXAS 79912 915-542-1591

PROJECT No.
1705

DETAILED GRADING PLAN (4 OF 4)
C-13
13 OF 28



INSET "A"
SCALE: 1" = 5'
NORTH



INSET "B"
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PROJECT No.
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INSETS (1 OF 5)
C-14
14 OF 28

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Jun 02,2017 4:31pm broj
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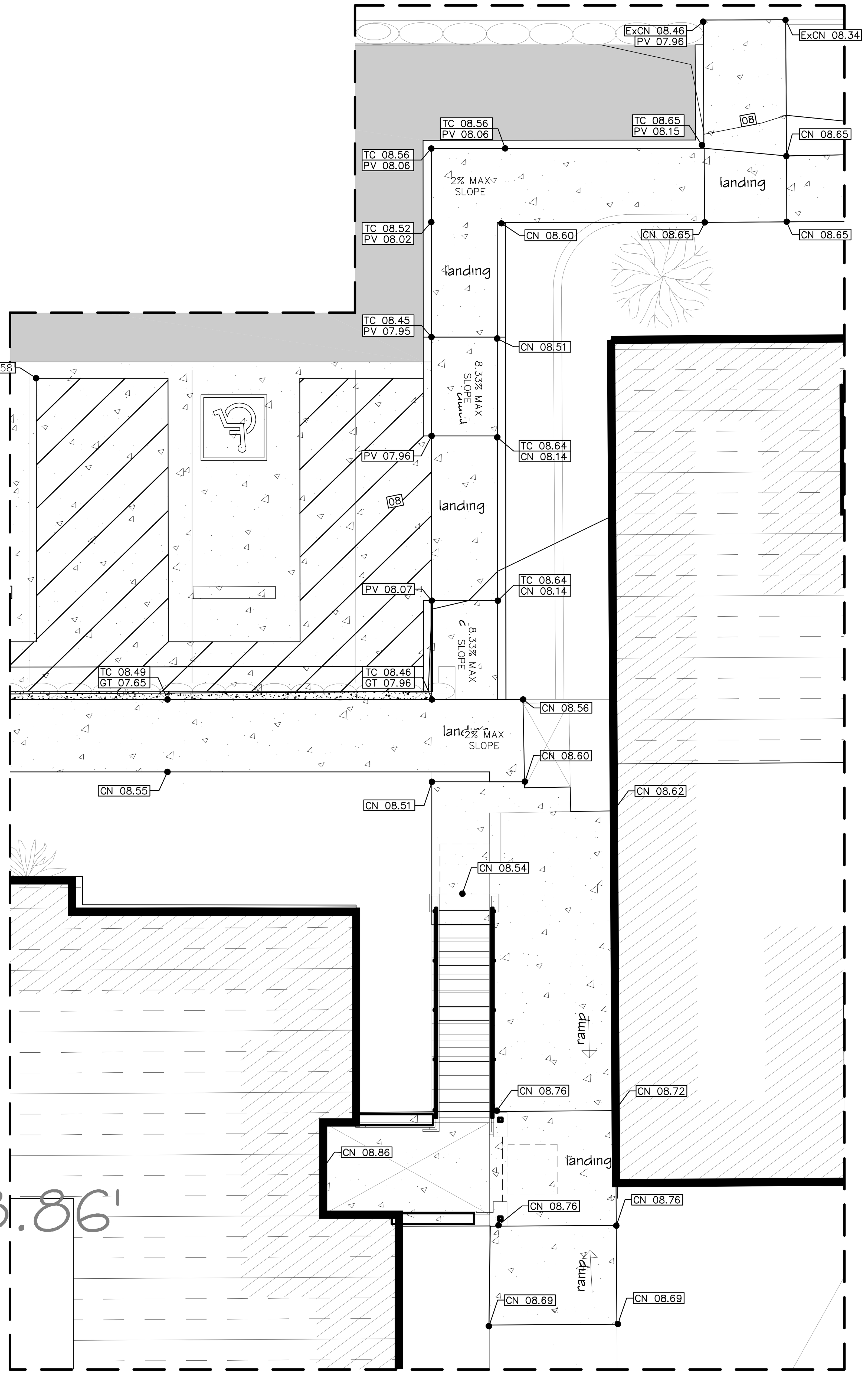

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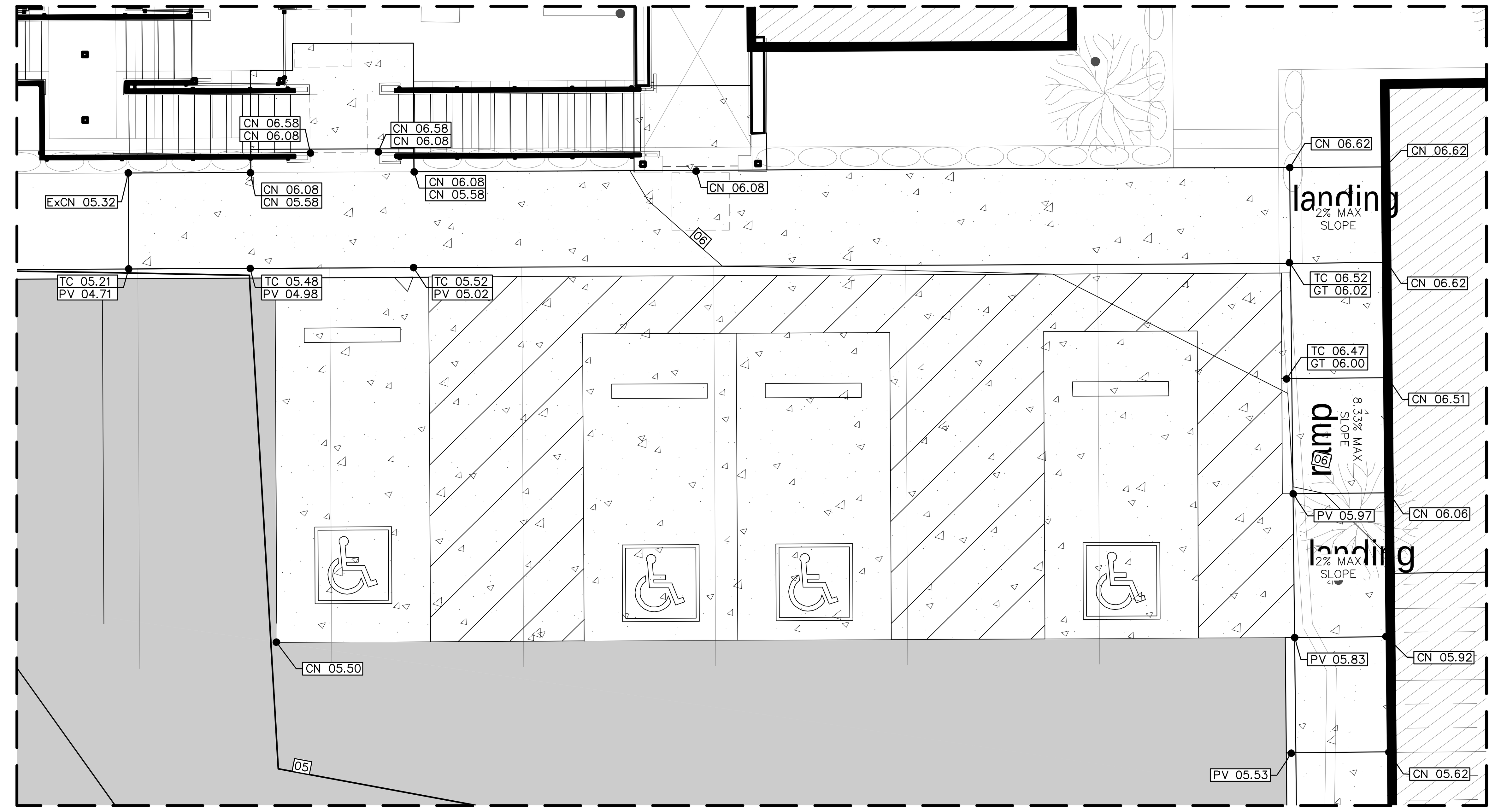

INSET "D"
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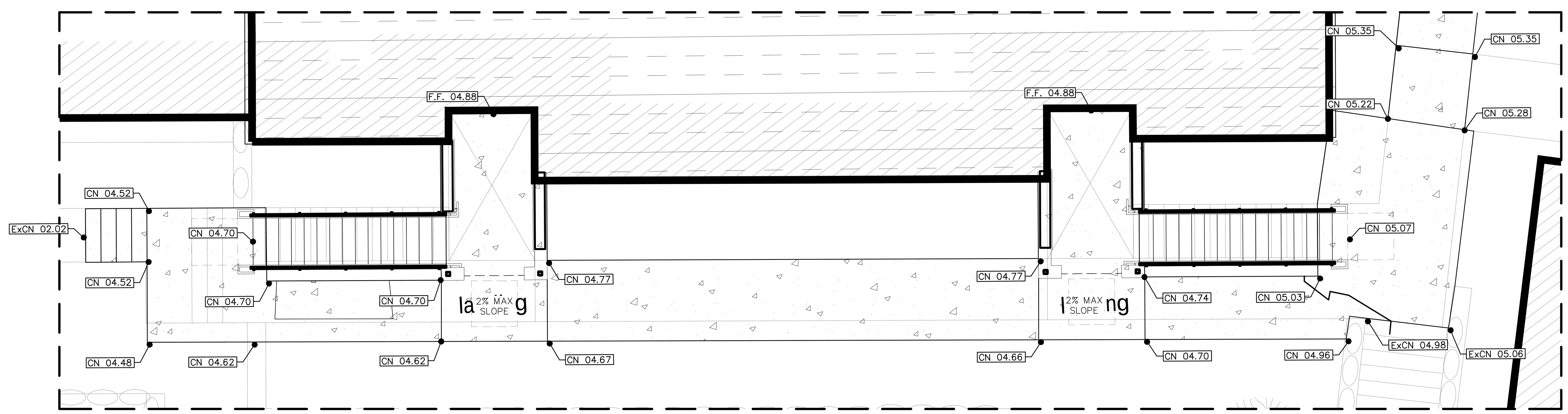

INSET "E"
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INSETS (2 OF 5)

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Texas Registered Engineering Firm F-005146

Jun 02,2017 4:33pm broj
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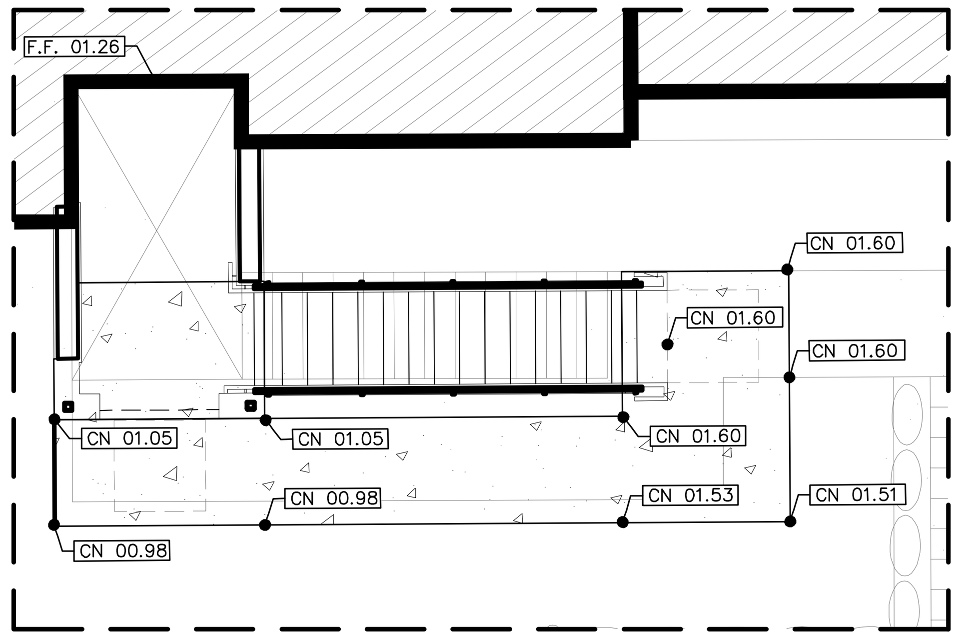

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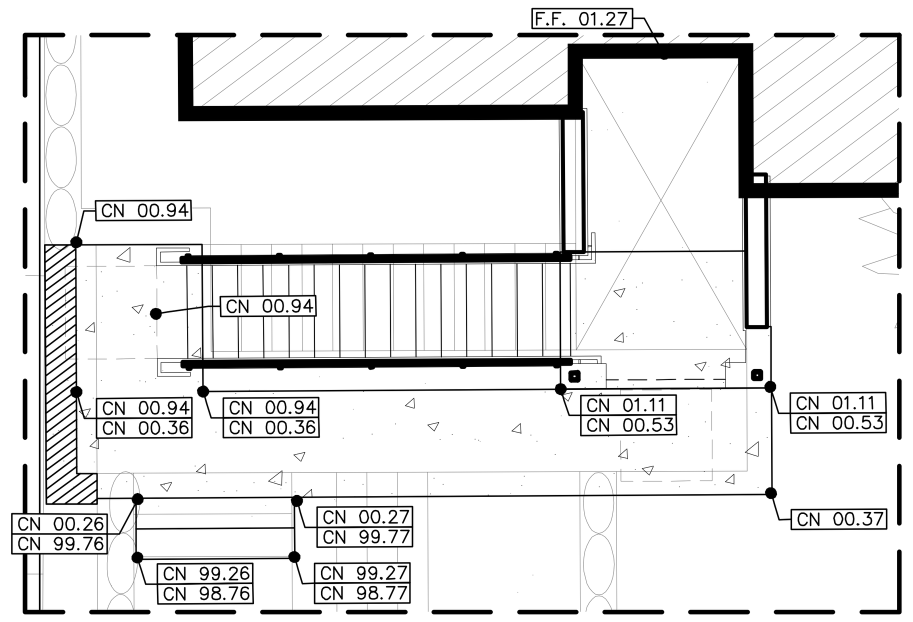

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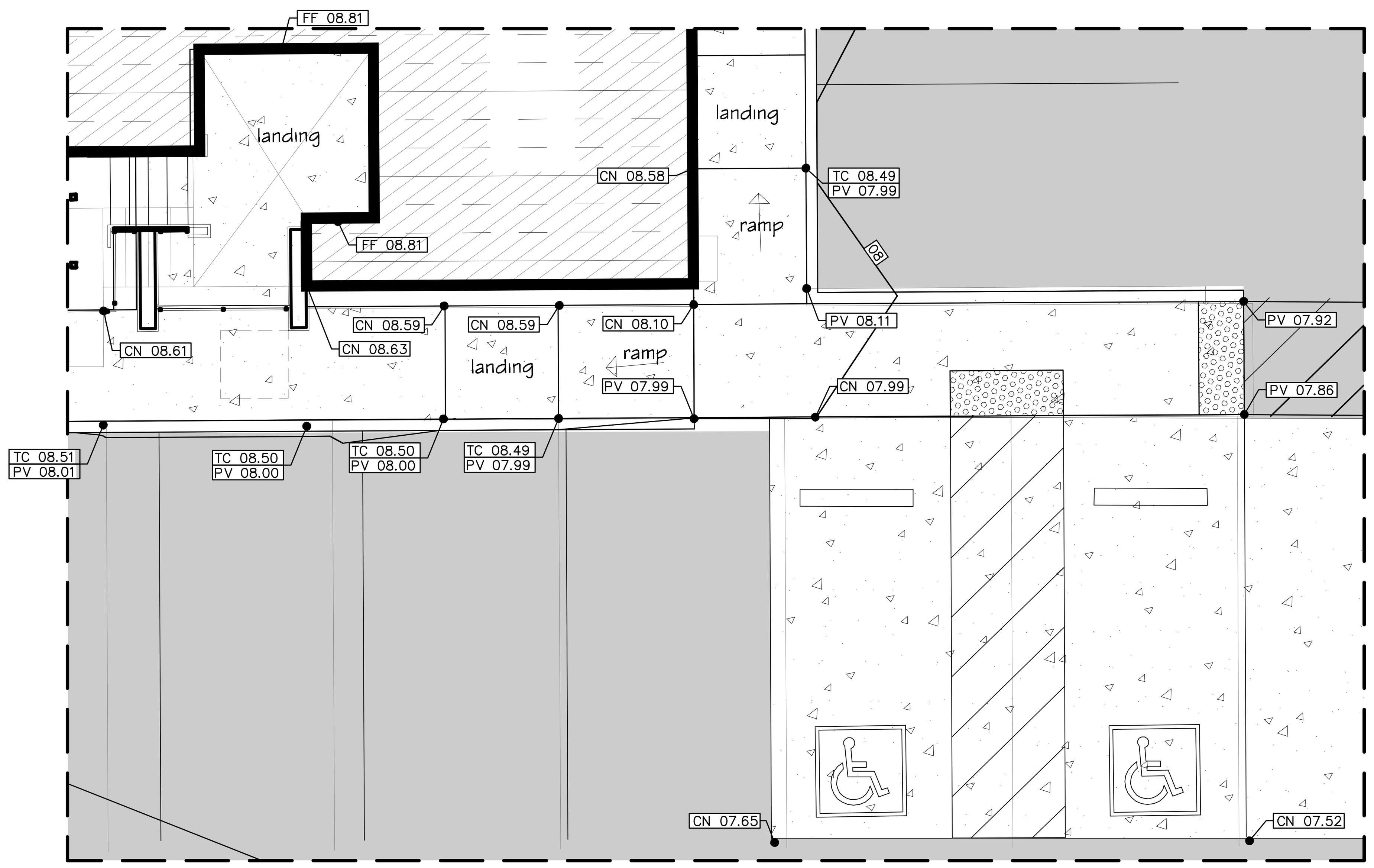

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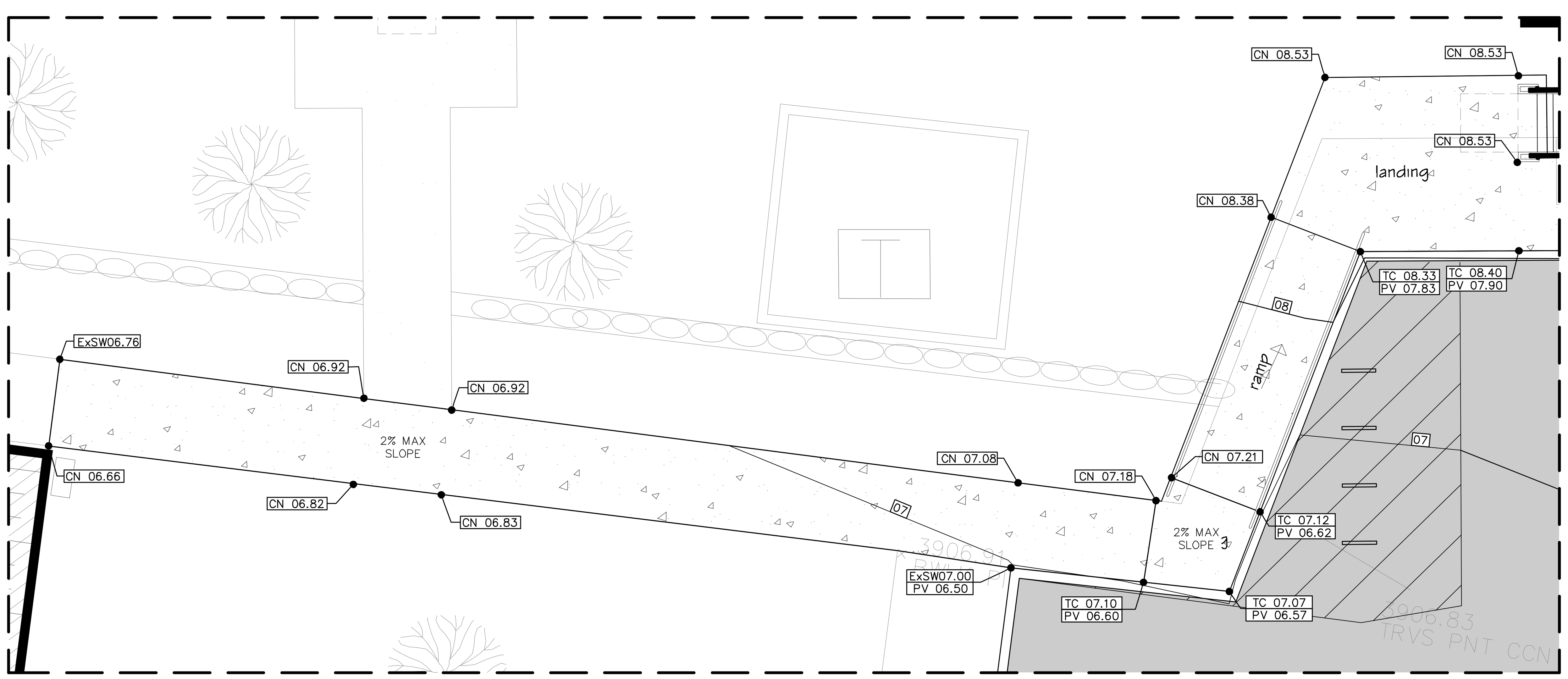

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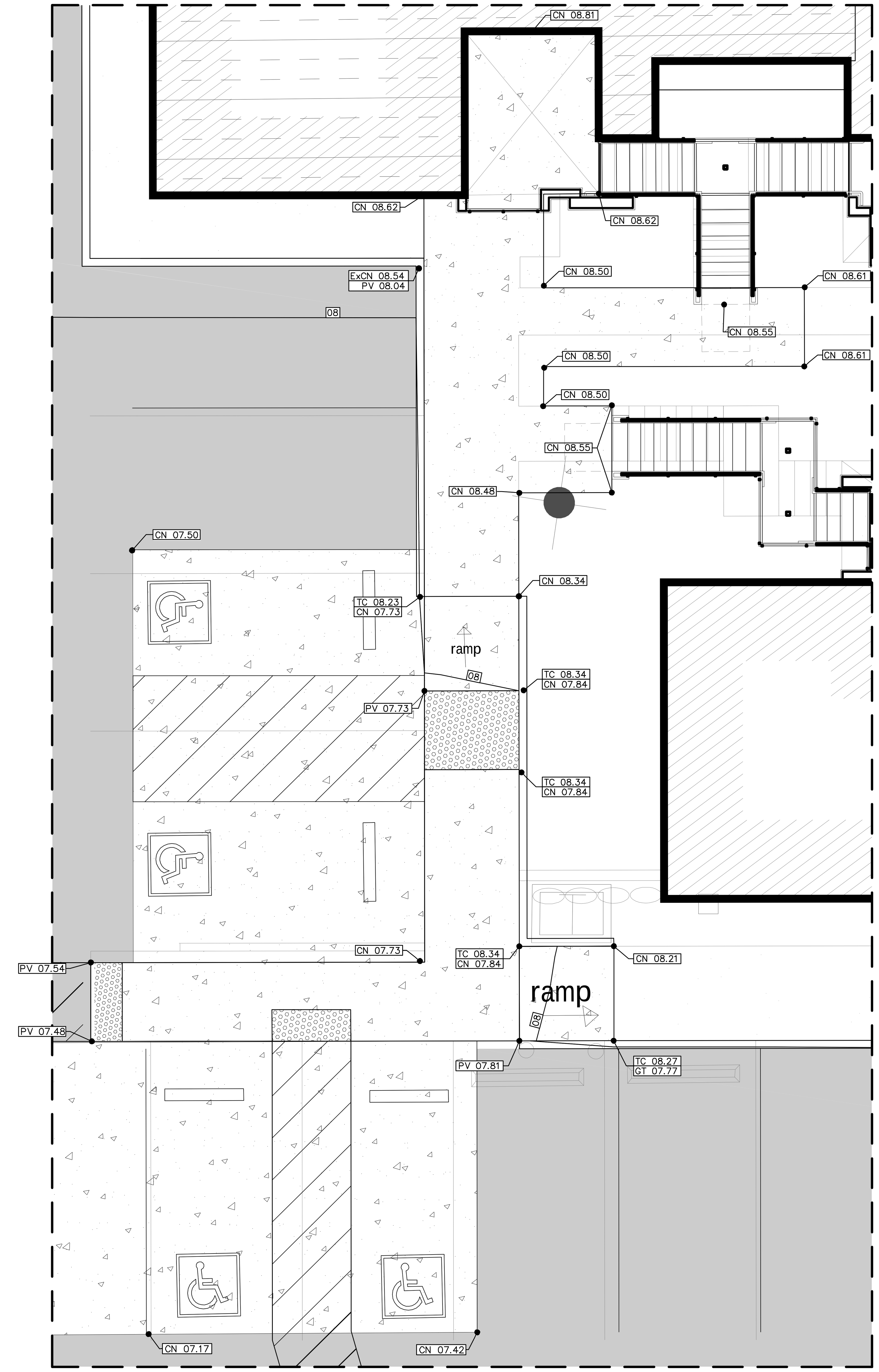

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VILLA ALEGRE APARTMENTS
SITE IMPROVEMENTS
6412 EDGEMERE BOULEVARD
EL PASO TEXAS 79925

DATE: JUNE 2017

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PROJECT No. 1705

INSETS (3 OF 5)

C-16

16 OF 28

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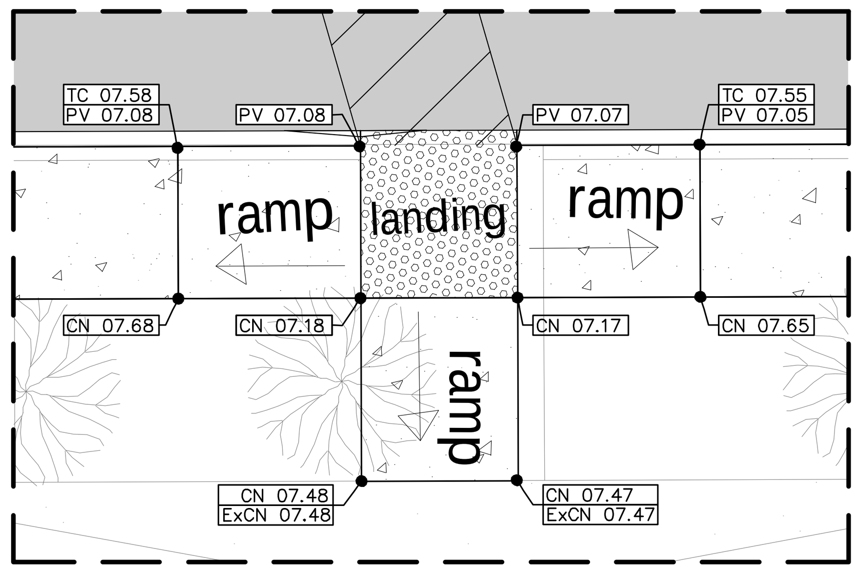

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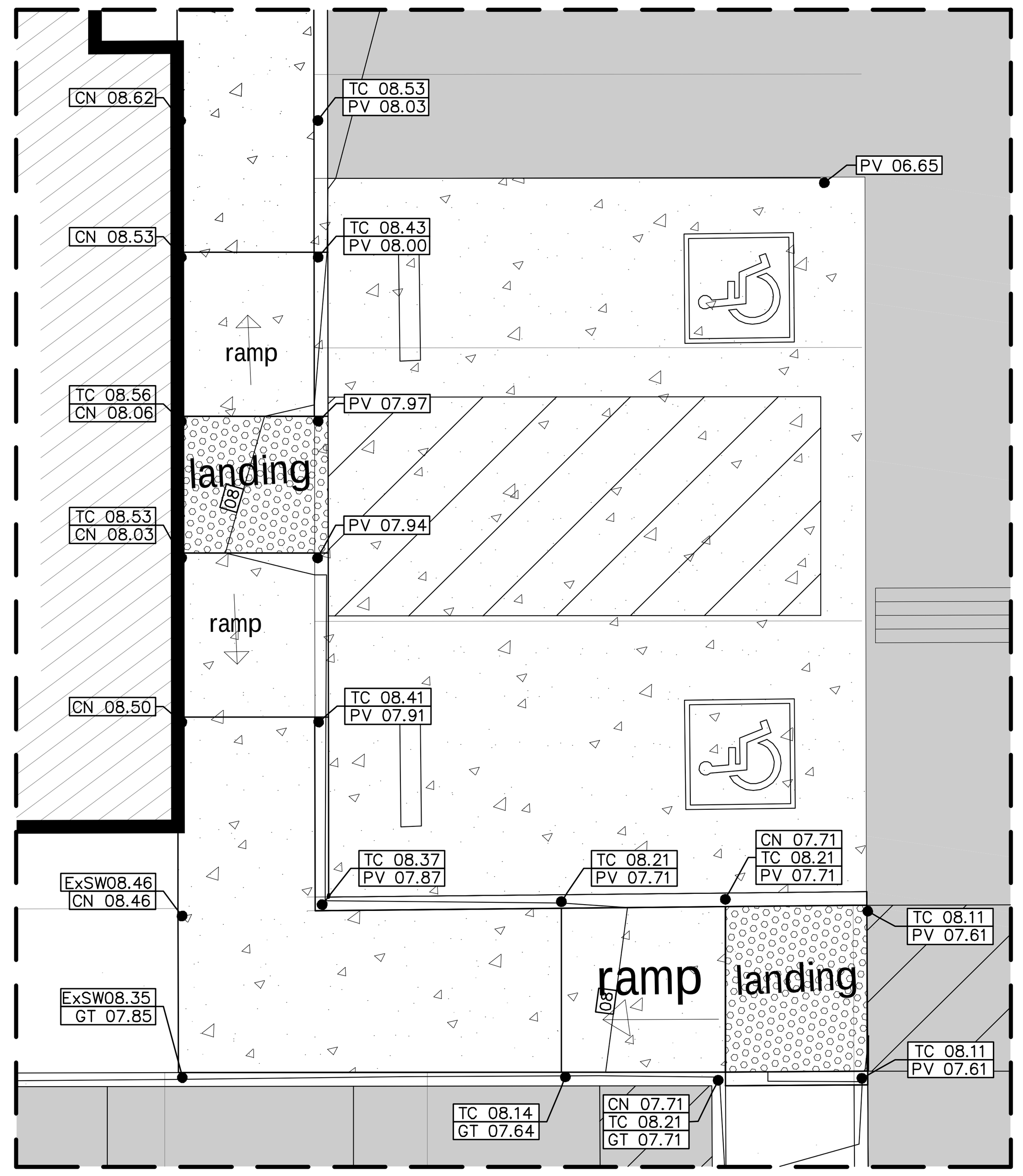

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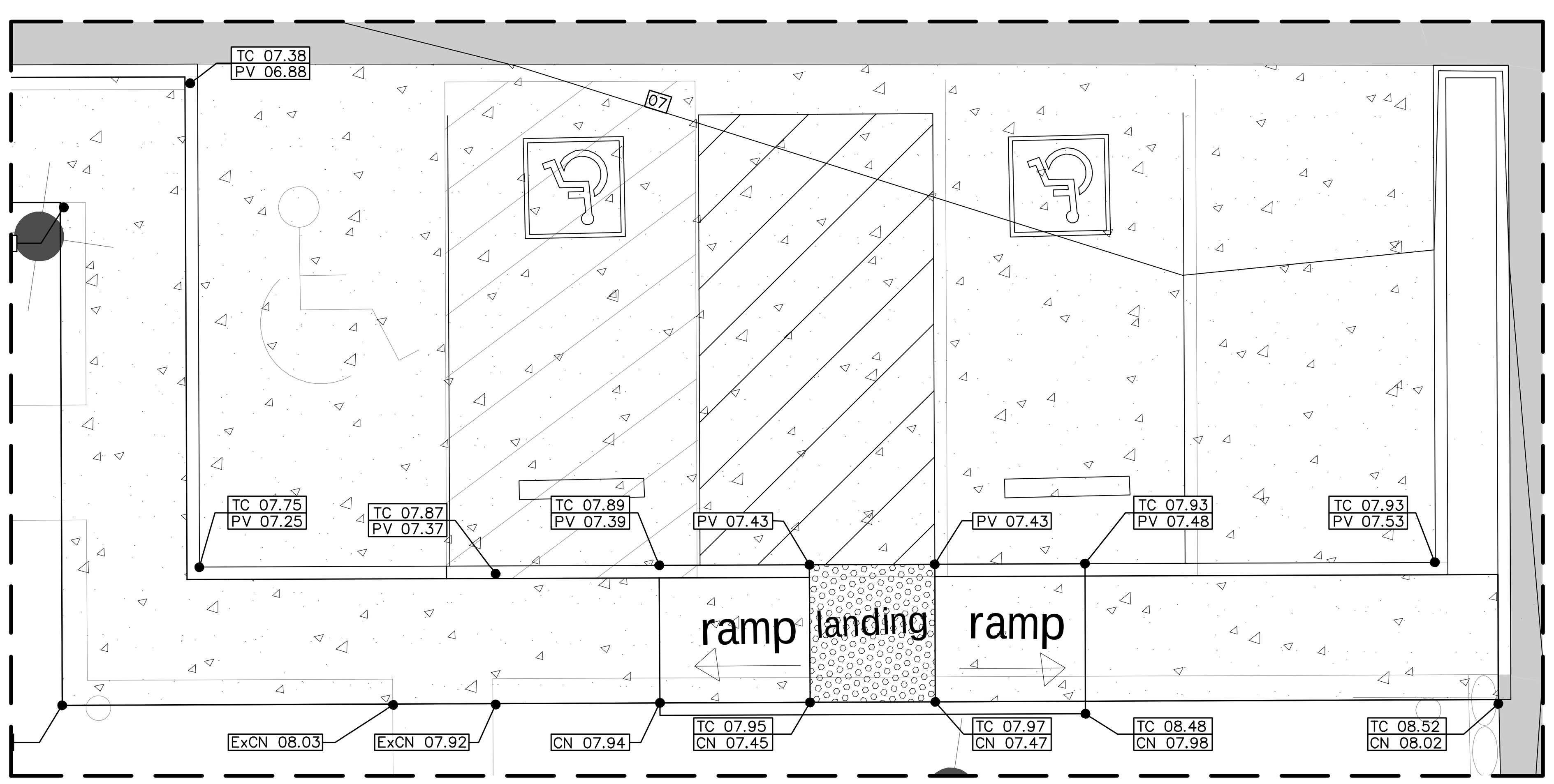

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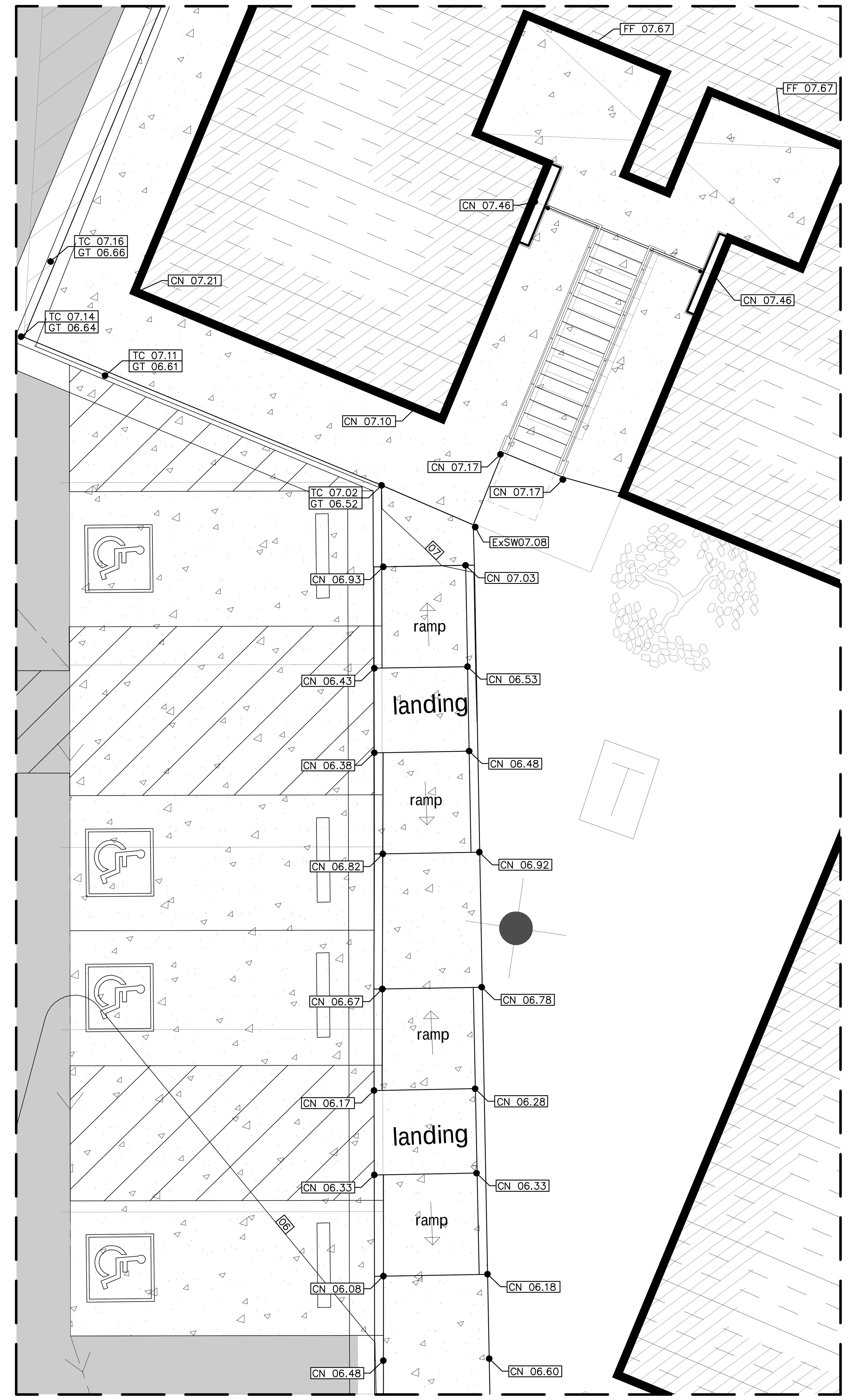

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69920
LICENSED PROFESSIONAL ENGINEER

VILLA ALEGRE APARTMENTS
SITE IMPROVEMENTS
6412 EDGEMERE BOULEVARD
EL PASO TEXAS 79925

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PROJECT No.
1705

INSETS
(4 OF 5)
C-17
17 OF 28

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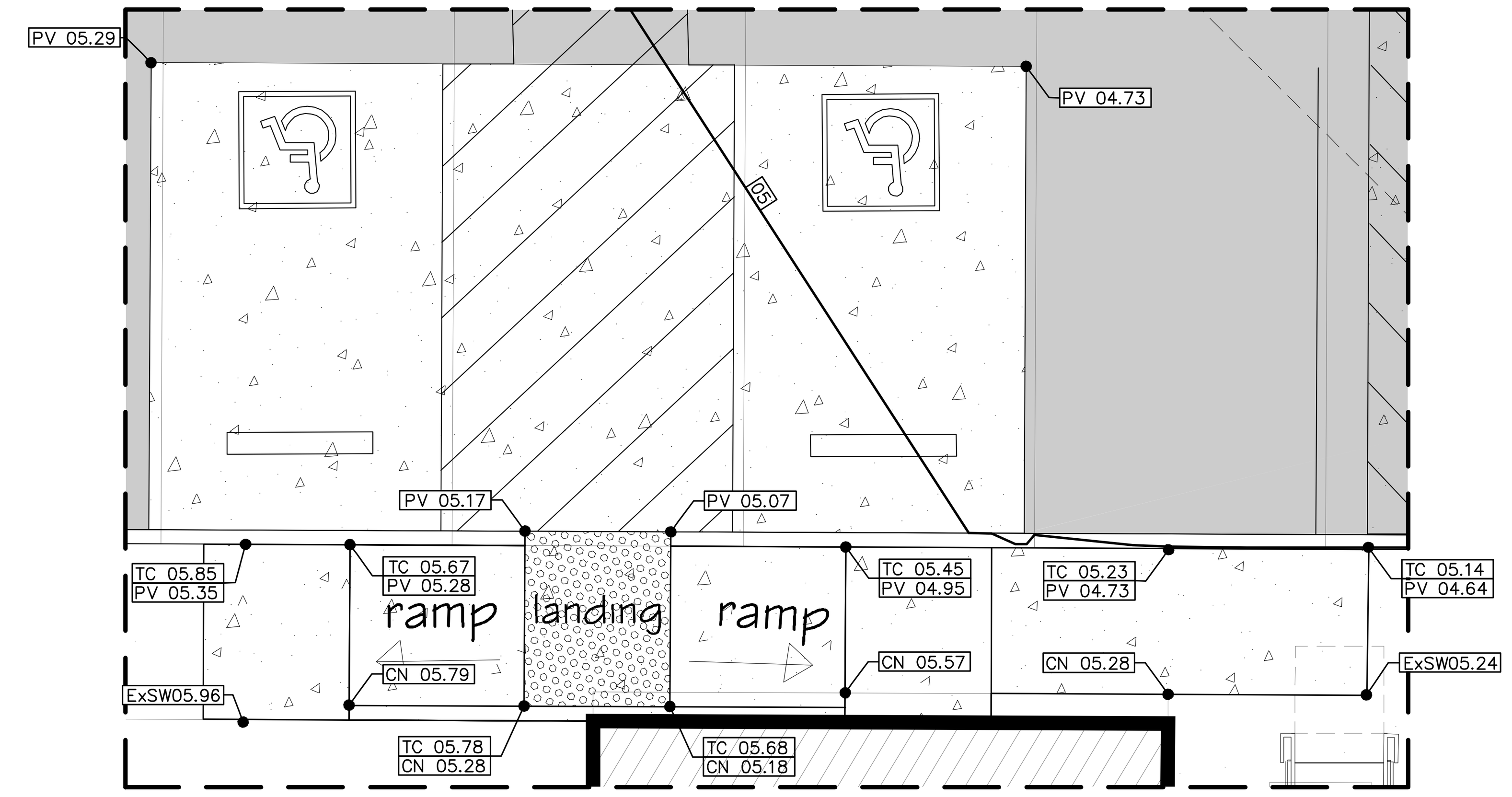

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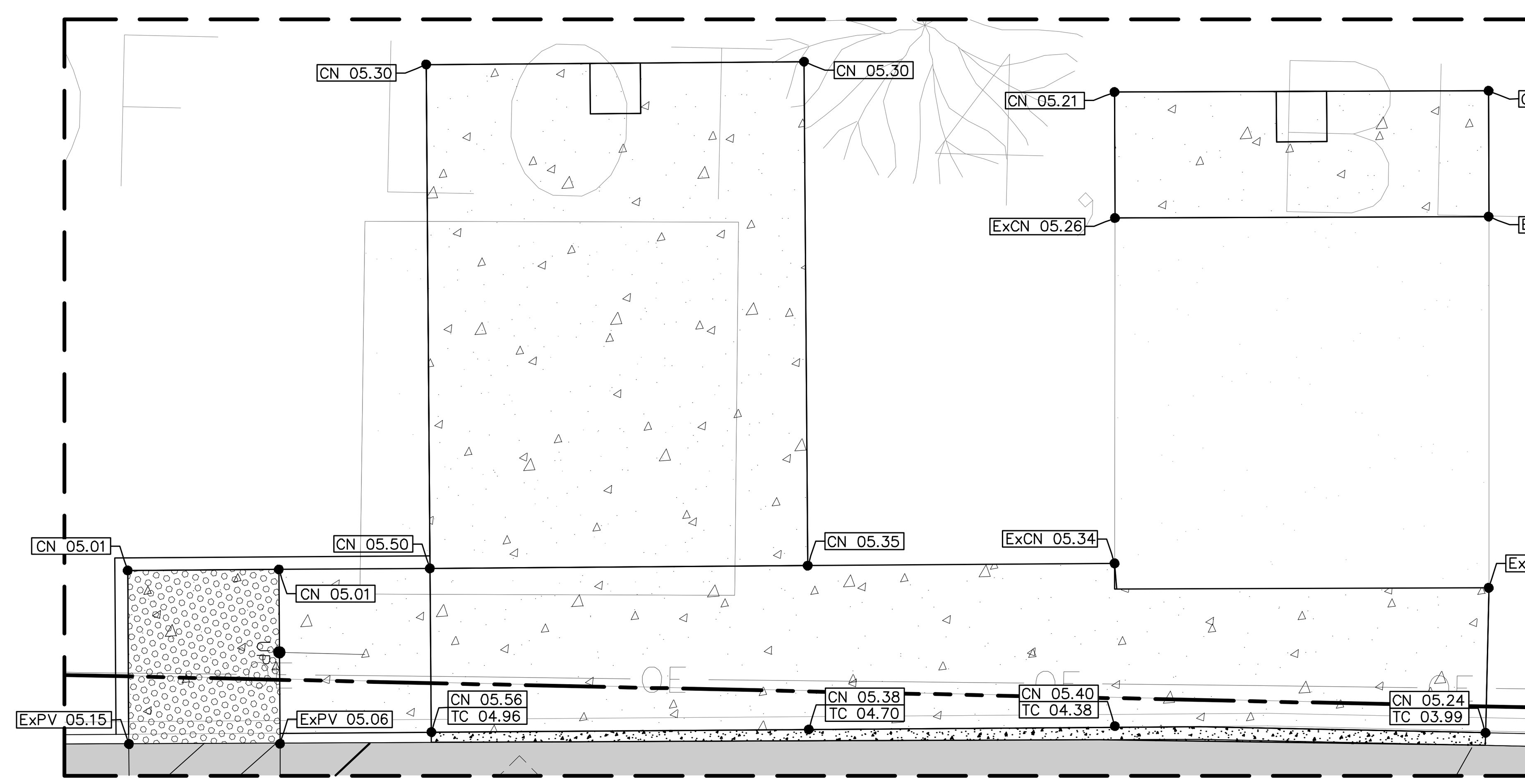

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6/4/17

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PROJECT No.
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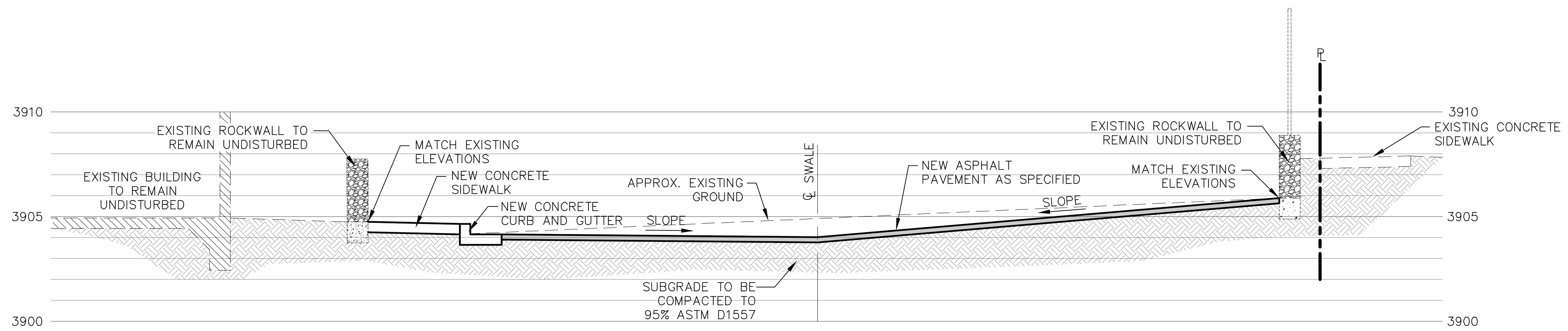
INSETS
(5 OF 5)

C-18

18 OF 28



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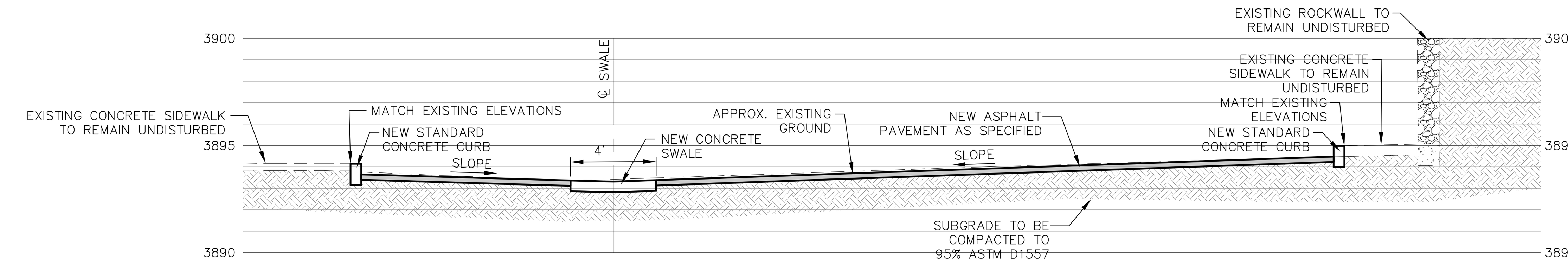

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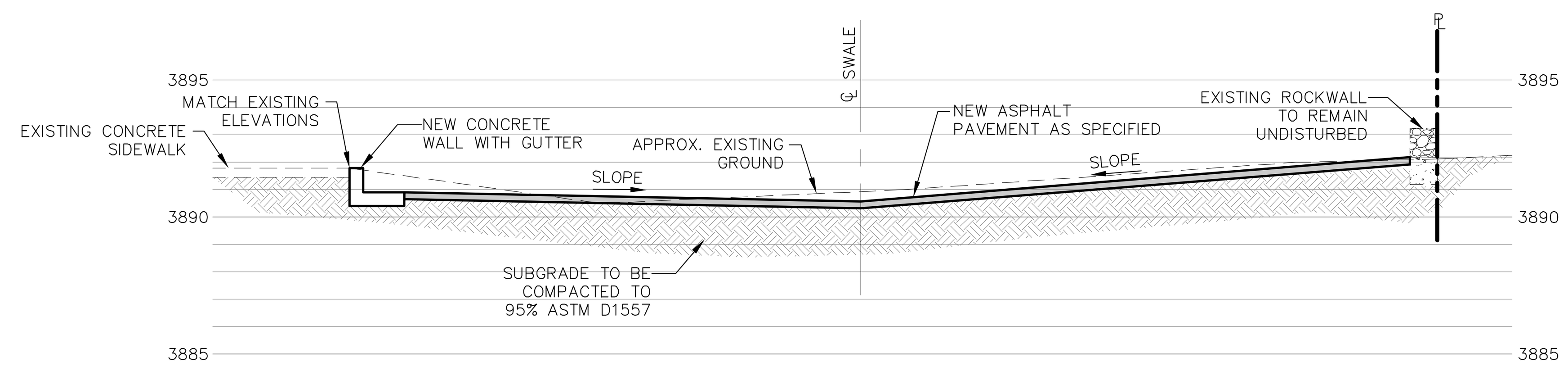

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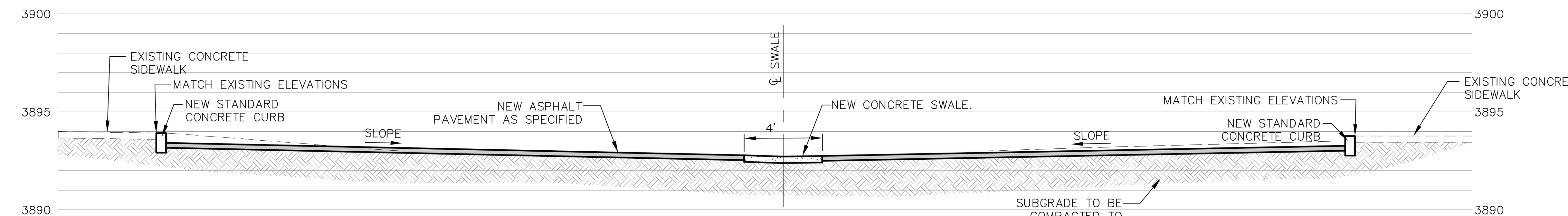

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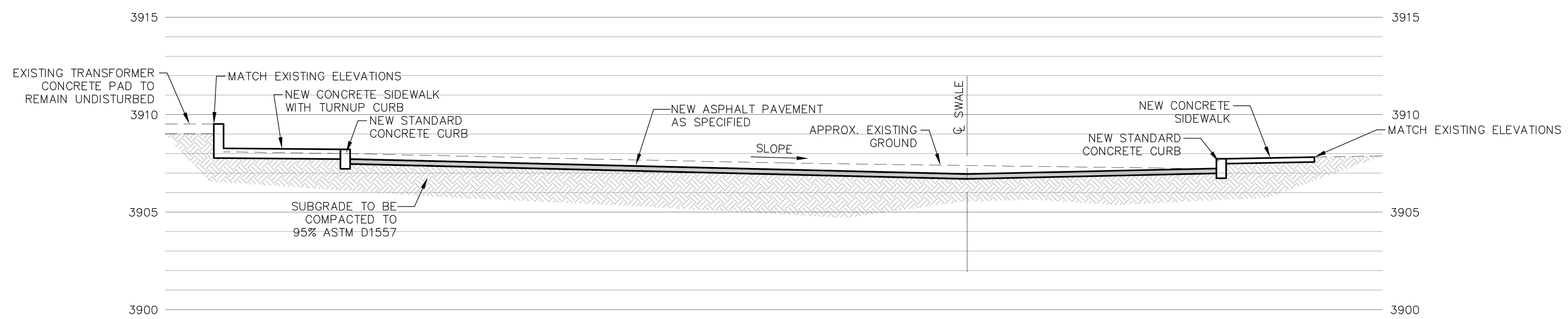

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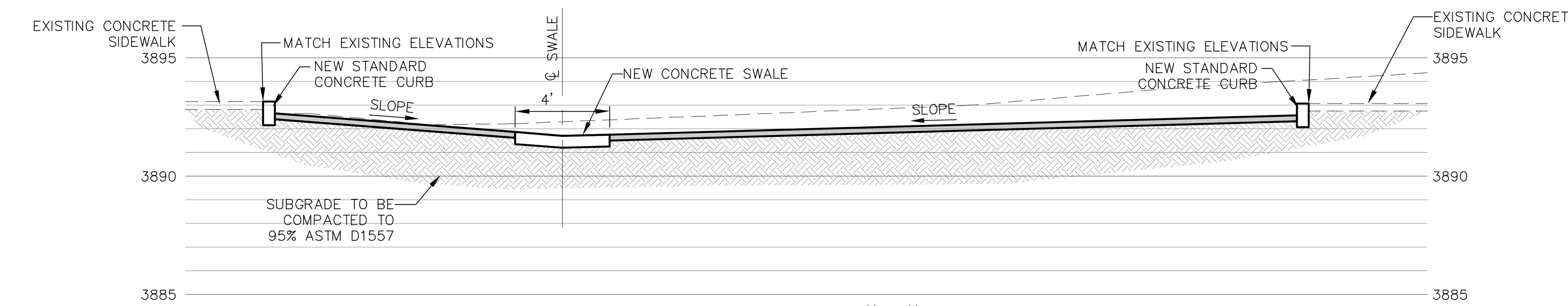

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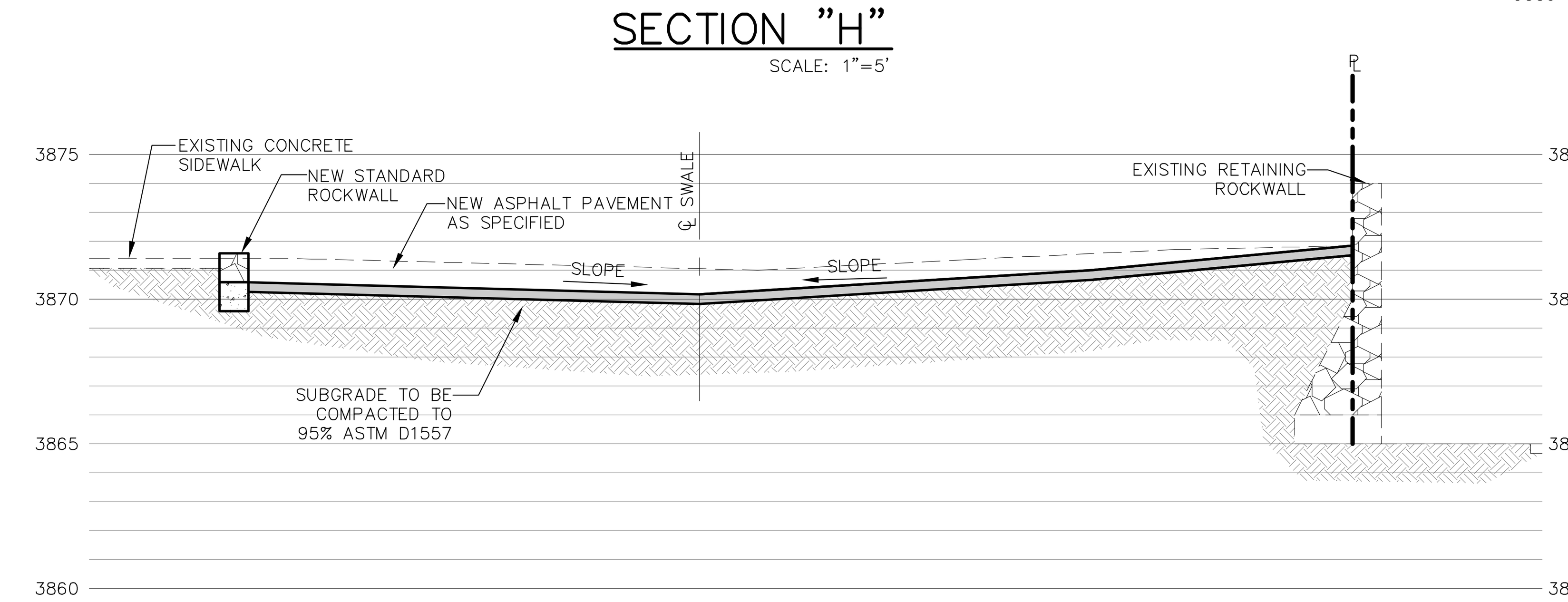

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SCALE: 1"=5'

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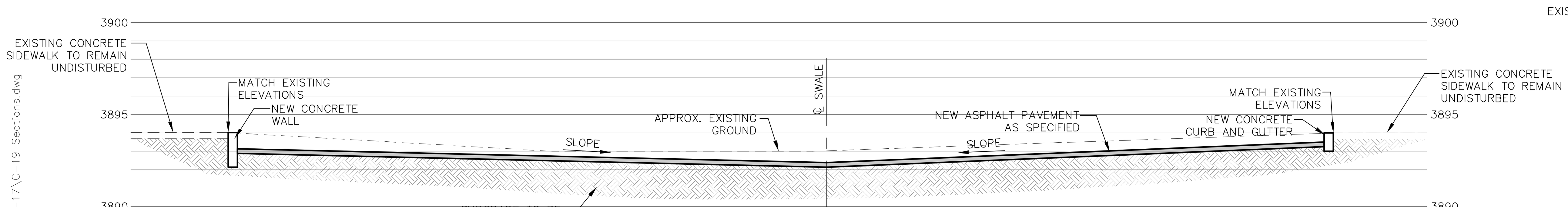

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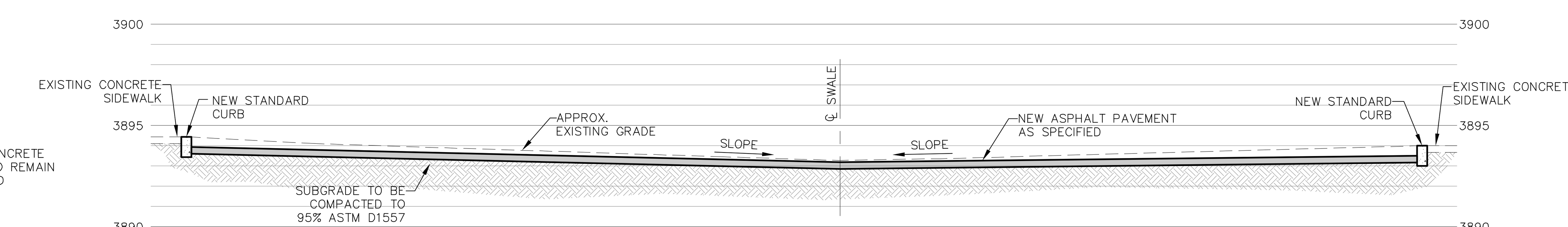

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SCALE: 1"=5'

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STATE OF TEXAS ROBERT A. GONZALES 69920 REGISTERED PROFESSIONAL ENGINEER

6/1/17

VILLA ALEGRE APARTMENTS

SITE IMPROVEMENTS

6412 EDGEMERE BOULEVARD

EL PASO TEXAS 79925

DATE: JUNE 2017

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PROJECT No. 1705

SECTIONS

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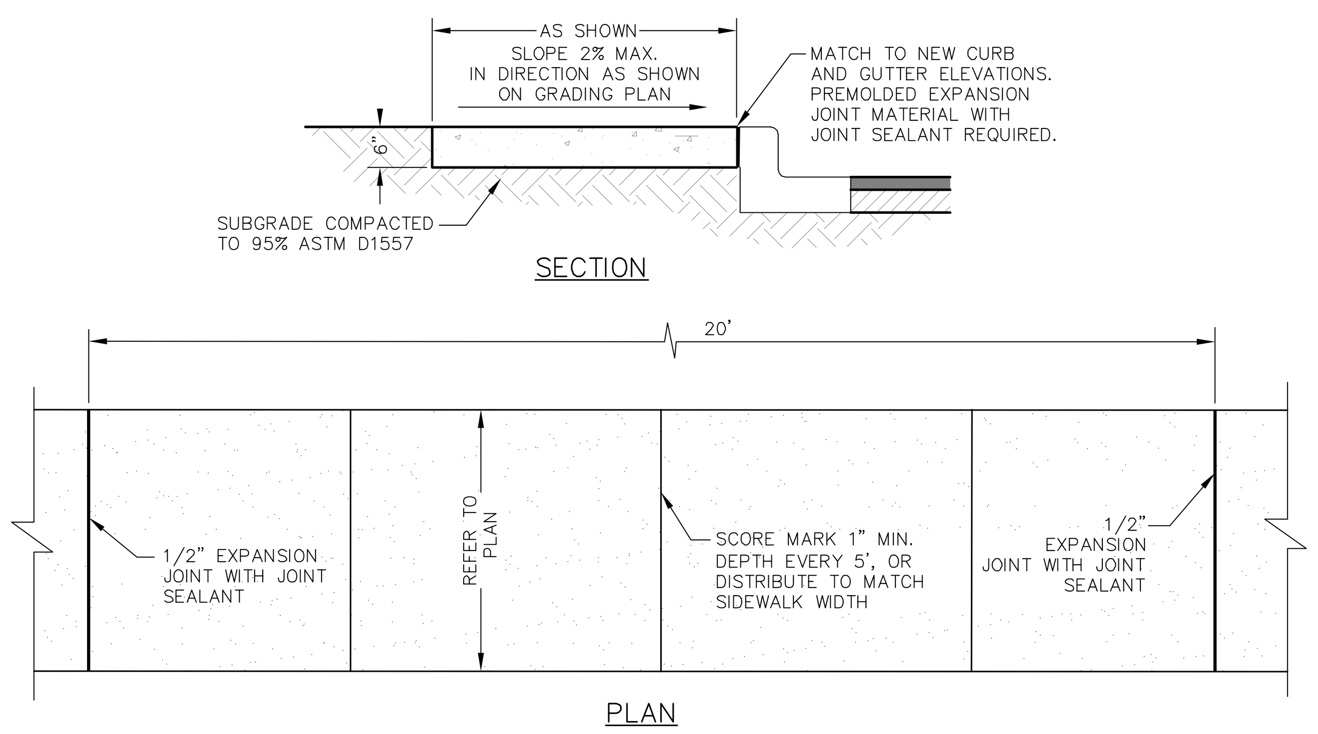


SIDEWALK NOTES:

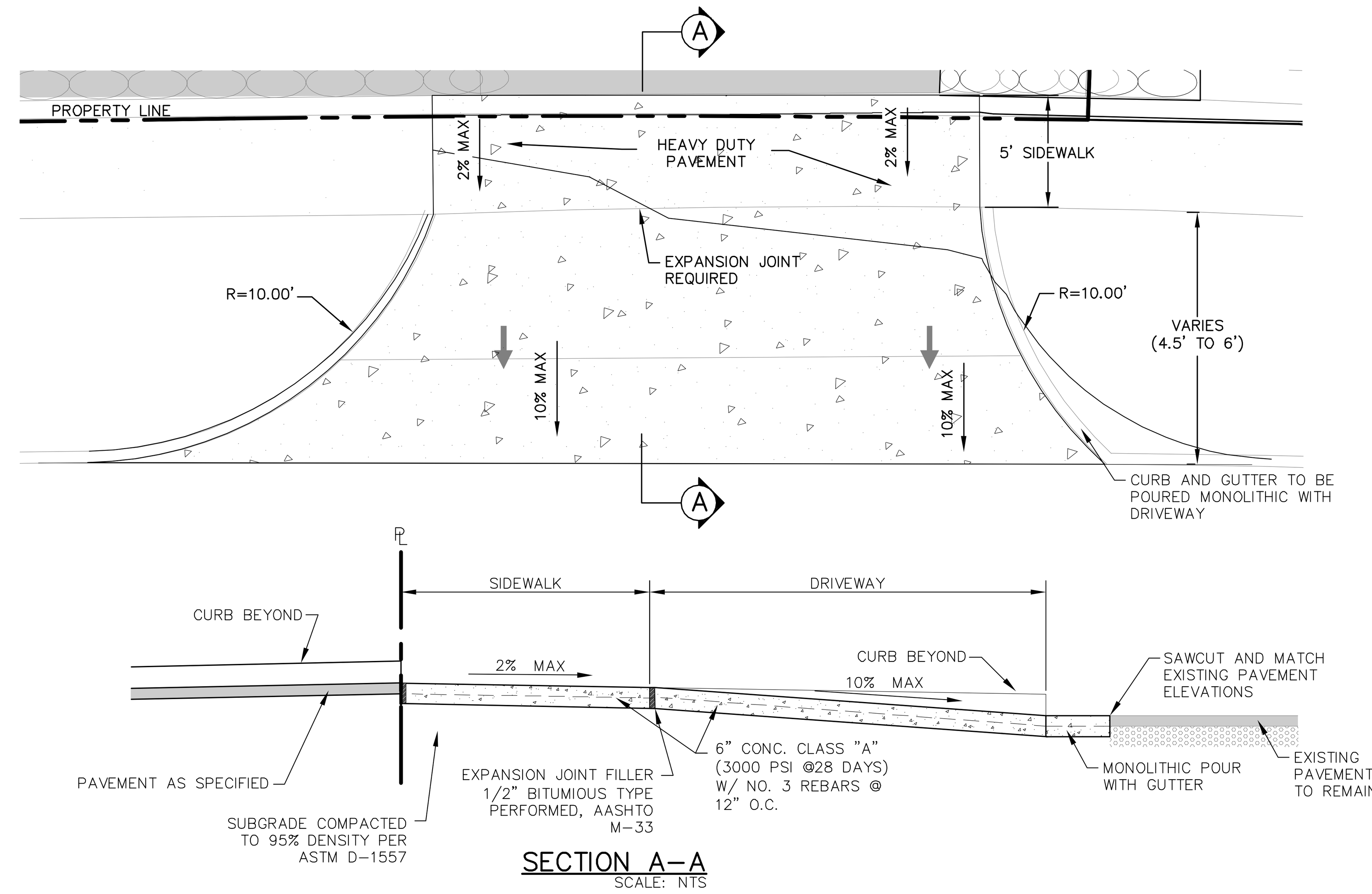
1. CONCRETE SIDEWALK SHALL BE 3,000 P.S.I. @ 28 DAYS.
2. DUMMY JOINTS REQUIRED AT 5' O.C.
3. EXPANSION JOINTS SHALL BE AT 20' O.C. MAXIMUM, USE 1/2" PREMOLDED BITUMINOUS EXPANSION JOINTS AND JOINT SEALANT (AASHTO M-33) JOINT SEALANT SHALL BE SIKAFLEX-2C NS EZ MIX OR ENGINEER APPROVED EQUAL.
4. EXPANSION JOINT FILLER SHALL BE PLACED WHEREVER SIDEWALK ABUTS ROCK OR MASONRY STRUCTURES SUCH AS CURBS OR BUILDINGS.
5. SUBGRADE UNDER SIDEWALK TO BE COMPACTED TO 95% ASTM D1557 (MINIMUM).

NOTES:

CONTRACTOR SHALL INSURE THE FOLLOWING: ALL ACCESSIBLE ROUTES SHALL NOT EXCEED A RUNNING SLOPE GREATER THAN 1:20. NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:50. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20. NEW WHEEL CHAIR RAMPS SHALL NOT EXCEED A SLOPE OF 1:12.

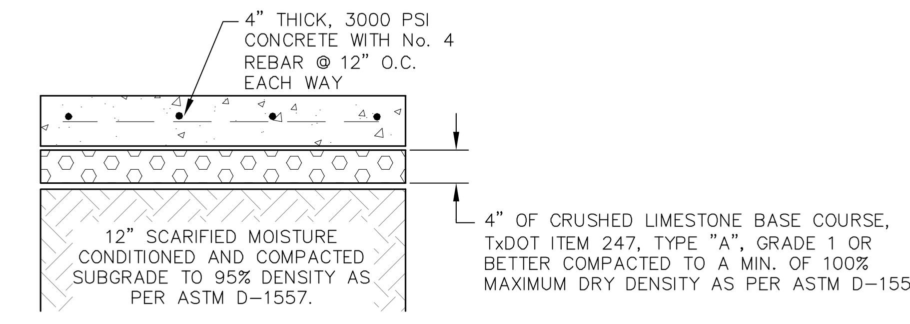
6" THICK TYPICAL CONCRETE SIDEWALK DETAIL

SCALE: N.T.S.

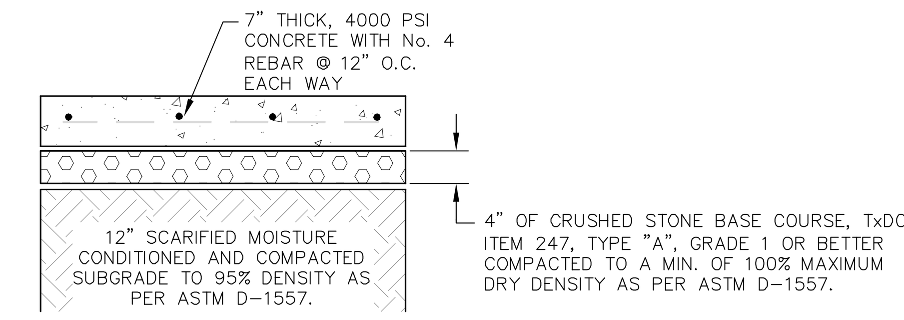


TYPICAL DRIVEWAY DETAIL

SCALE: N.T.S.

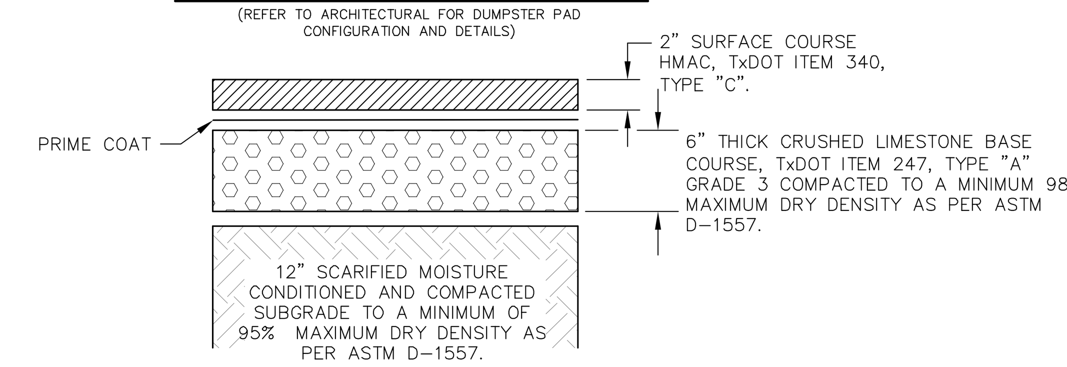


PICNIC PAD SECTION



TYPICAL DUMPSTER PAD SECTION

(REFER TO ARCHITECTURAL FOR DUMPSTER PAD CONFIGURATION AND DETAILS)

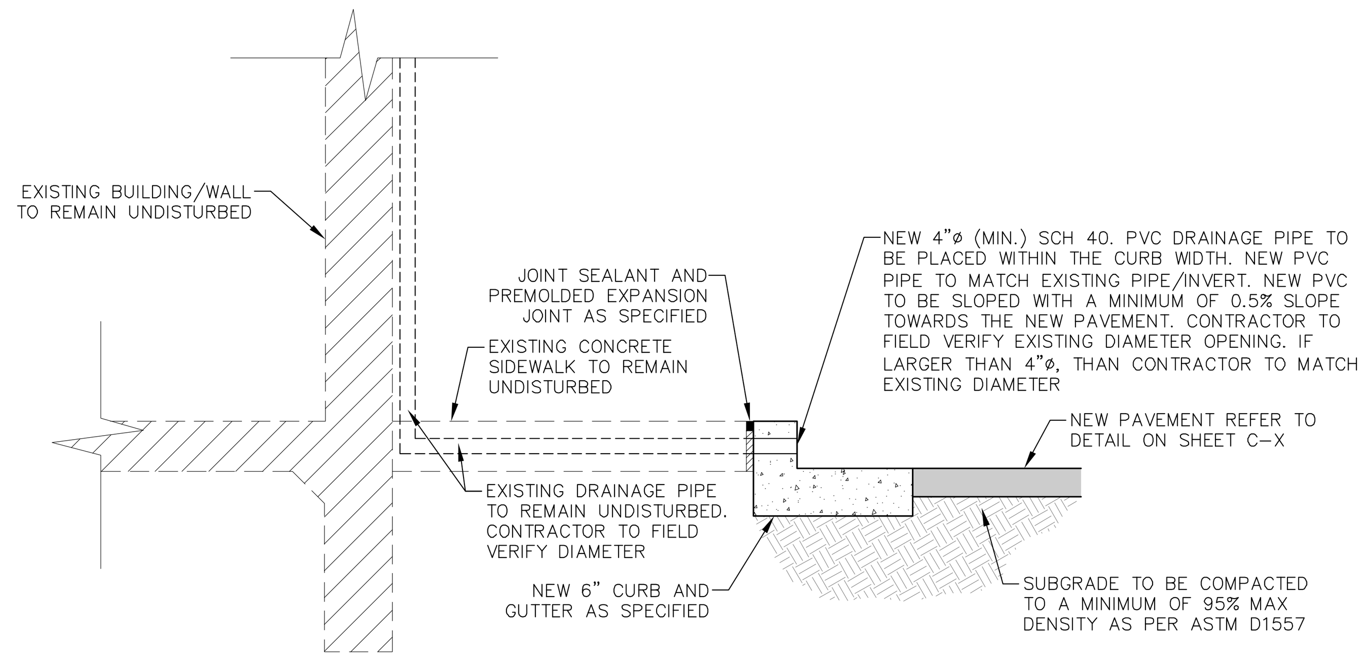


LIGHT DUTY ASPHALT PAVEMENT SECTION

PAVEMENT RECOMMENDATION NOTE:
THE PROJECT CIVIL ENGINEER IS NOT RESPONSIBLE FOR REVIEWING ANTICIPATED TRAFFIC LOADING, FREQUENCIES OR DESIGN OF THE PAVEMENT SECTION. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL PAVEMENT RECOMMENDATIONS AND SPECIFICATIONS.

TYPICAL PAVEMENT SECTION

SCALE: N.T.S



NEW CURB OPENING DRAINAGE PIPE DETAIL

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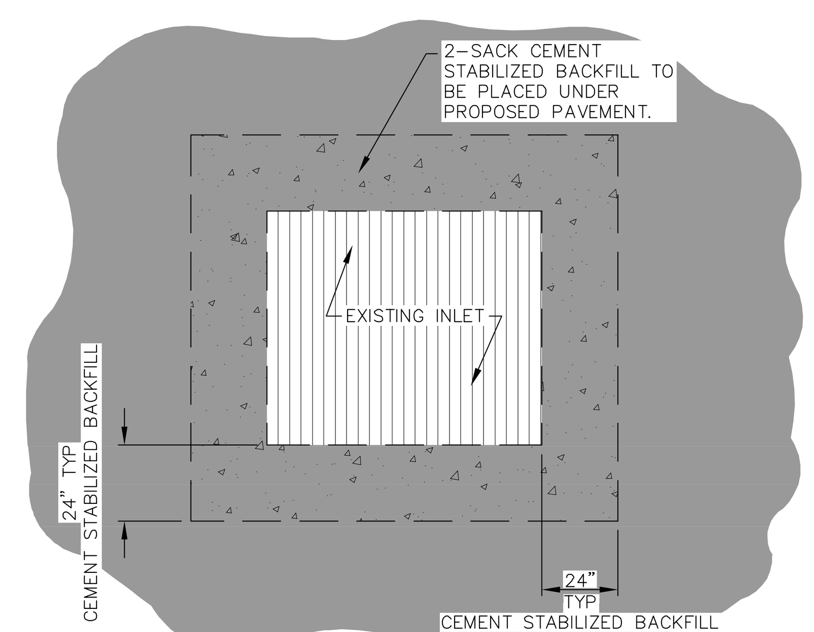
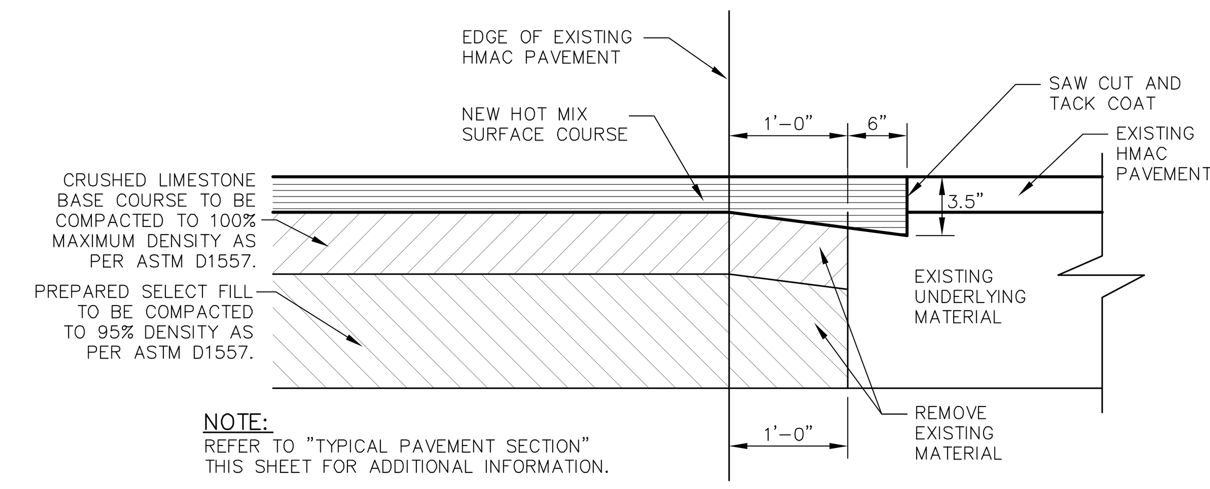


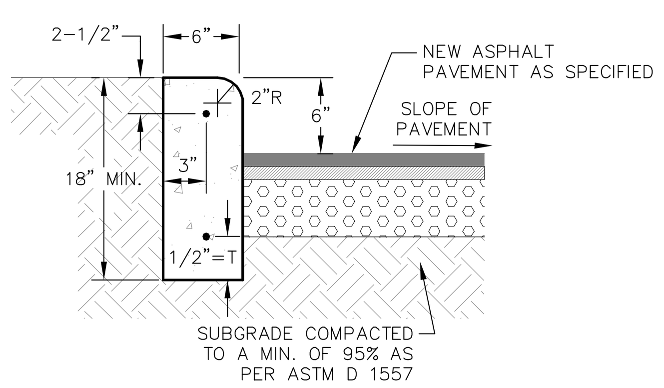
NOTE:
CONTRACTOR SHALL INSURE THE FOLLOWING: ALL ACCESSIBLE ROUTES SHALL NOT EXCEED A RUNNING SLOPE GREATER THAN 1:20. NOWHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:50. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20. NEW WHEEL CHAIR RAMPS SHALL NOT EXCEED A SLOPE OF 1:12.



NOTE:
REFER TO "TYPICAL PAVEMENT SECTION" THIS SHEET FOR ADDITIONAL INFORMATION.

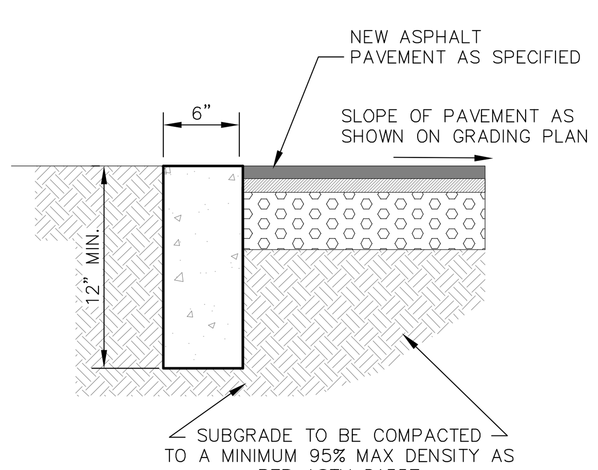
JUNCTURE OF NEW HMAC PAVEMENT AND EXISTING HMAC PAVEMENT

SCALE: N.T.S.



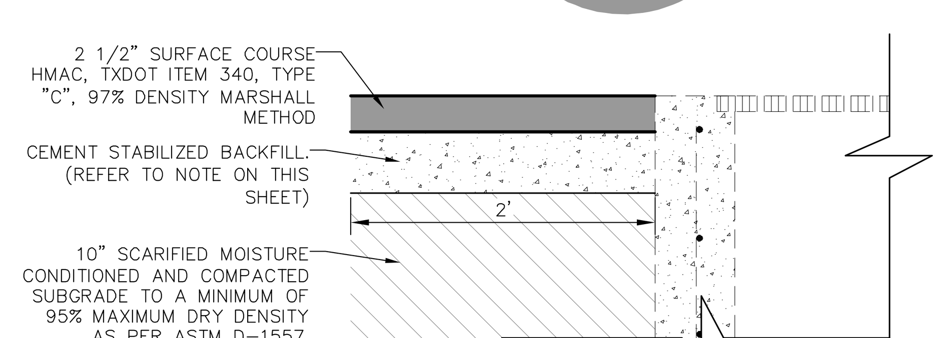
STANDARD 6" CONCRETE CURB

SCALE: N.T.S



CONCRETE HEADER CURB DETAIL

SCALE: N.T.S.



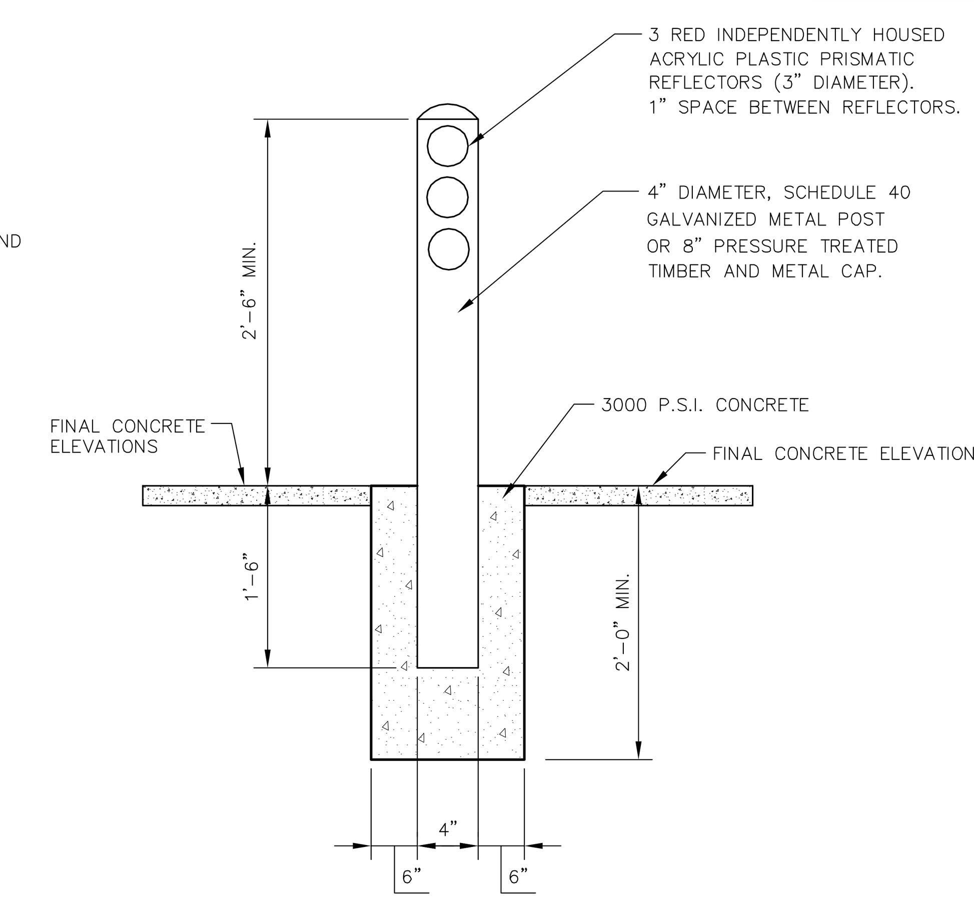
NOTES:

1. CONCRETE TO BE 3000 PSI MIN. @ 28 DAYS.
2. CONCRETE CURB, GUTTER, AND RETURNS SHALL BE ASTM TYPE II, PORTLAND CEMENT.
3. DUMMY JOINT REQUIRED AT 10' O.C. FOR CURB & GUTTER AND 5' O.C. FOR SIDEWALK.
4. EXPANSION MATERIAL REQUIRED AT CURB RETURNS, WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
5. SUBGRADE UNDER CURB MUST BE FORMED AND COMPACTED TO 95% ASTM D1557.
6. EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR CURBS.
7. EXPANSION JOINTS REQUIRED FOR SIDEWALK AT 20' O.C.

NOTE:
CEMENT STABILIZED BACKFILL: WHERE CEMENT STABILIZED BACKFILL IS SHOWN ON THE DRAWINGS, IT SHALL CONSIST OF A MIXTURE OF SOIL AND TWO SACKS OF TYPE 1 PORTLAND CEMENT PER CUBIC YARD . SOIL SHALL BE CLASSIFIED AS SW, SP OR SM BY THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) OF ASTM D2487, FREE FROM LUMPS, CLODS OR ORGANIC MATERIAL. IF EXCAVATED MATERIAL IS NOT SUITABLE, PIT-RUN SAND SHALL BE USED. CEMENT STABILIZED BACKFILL SHALL BE MIXED IN A CONCRETE MIXER OR TRANSIT MIXER.

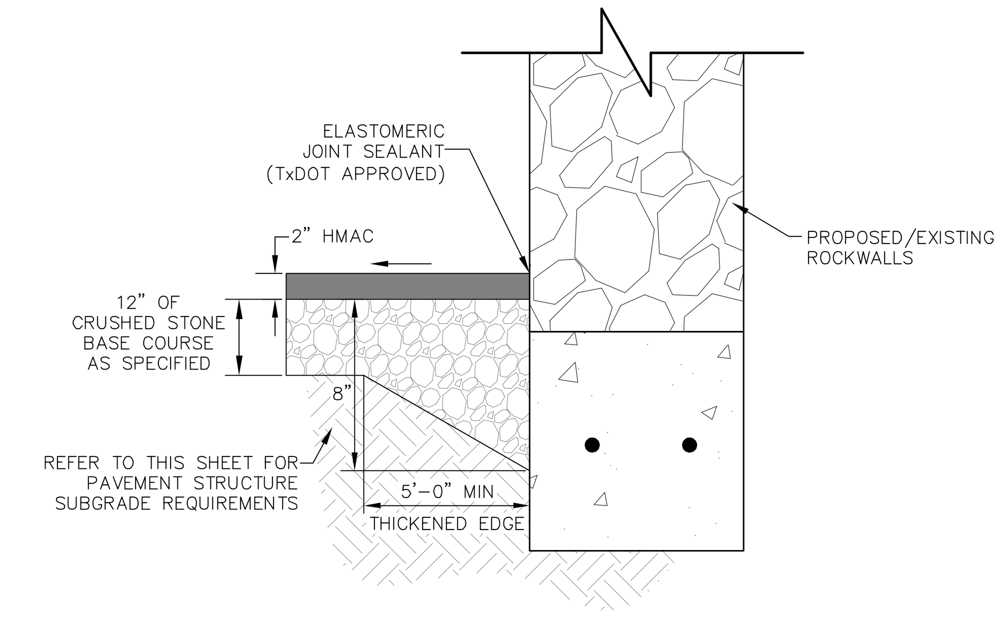
6" CURB AND CEMENT STABILIZED BACKFILL DETAIL

SCALE: N.T.S.



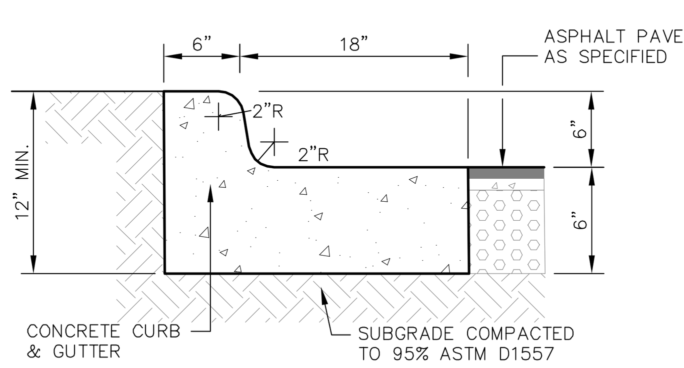
METAL GUARD POST DETAIL

SCALE: N.T.S



JUNCTURE OF NEW ASPHALT PAVEMENT AT NEW AND EXISTING ROCKWALLS

SCALE: N.T.S.



NOTES:

1. CONCRETE TO BE 3000 PSI MIN. @ 28 DAYS.
2. CONCRETE CURB, GUTTER, AND RETURNS SHALL BE ASTM TYPE II, PORTLAND CEMENT.
3. DUMMY JOINT REQUIRED AT 10' O.C. FOR CURB & GUTTER AND 5' O.C. FOR SIDEWALK.
4. EXPANSION MATERIAL REQUIRED AT CURB RETURNS, WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
5. SUBGRADE UNDER CURB MUST BE FORMED AND COMPACTED TO 95% ASTM D1557.
6. EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR CURBS.
7. EXPANSION JOINTS REQUIRED FOR SIDEWALK AT 20' O.C.

CONCRETE CURB AND GUTTER DETAIL

SCALE: N.T.S.

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VILLA ALEGRE APARTMENTS

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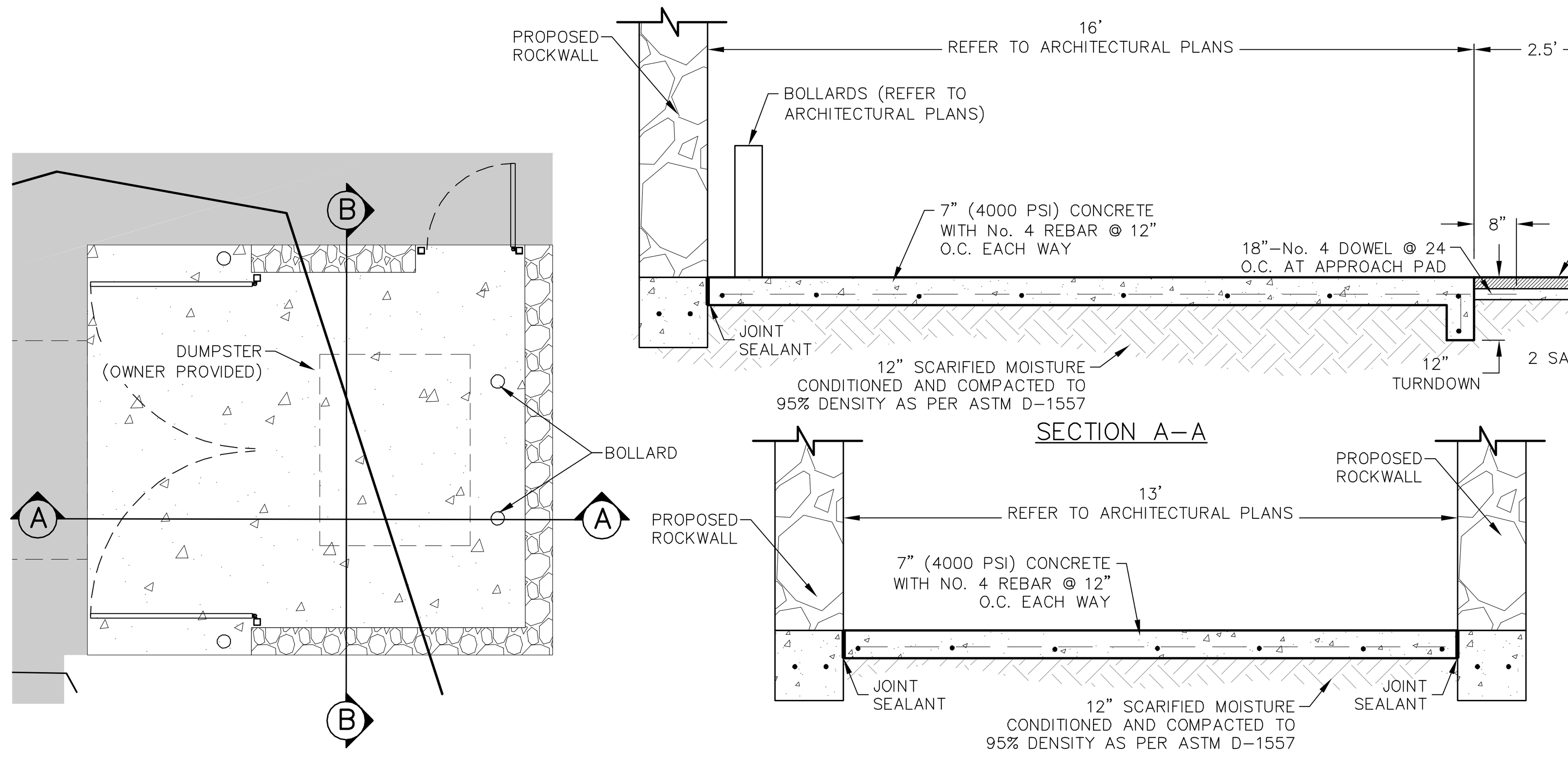
PROJECT No.
1705

TYPICAL DETAILS

C-20

20 OF 28

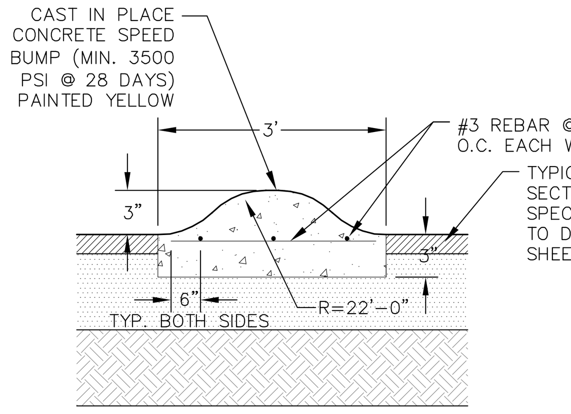


PLAN
SCALE: 1"=5'

SECTION A-A

SECTION B-B

DUMPSTER PAD DETAIL
SCALE: N.T.S.



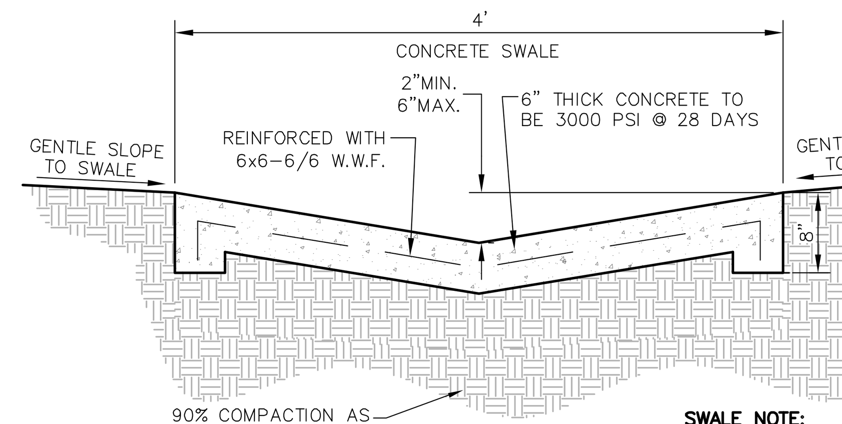
TYPICAL SPEED BUMP DETAIL
SCALE: N.T.S.

STRIPING NOTE:
ALL PAVEMENT MARKINGS SHALL COMPLY WITH TXDOT, TYPE I "HOT APPLIED THERMOPLASTIC" MARKINGS, AND CONFORM TO ITEM 666, TXDOT STANDARD SPECIFICATIONS.

NOTE:
DETAILS SHOWN ON THIS DRAWING ARE FOR REFERENCE PURPOSES ONLY. REFER TO DESIGN DRAWINGS BY ADVANCED DRAINAGE SYSTEMS (ADS) OR ENGINEER APPROVED EQUAL.

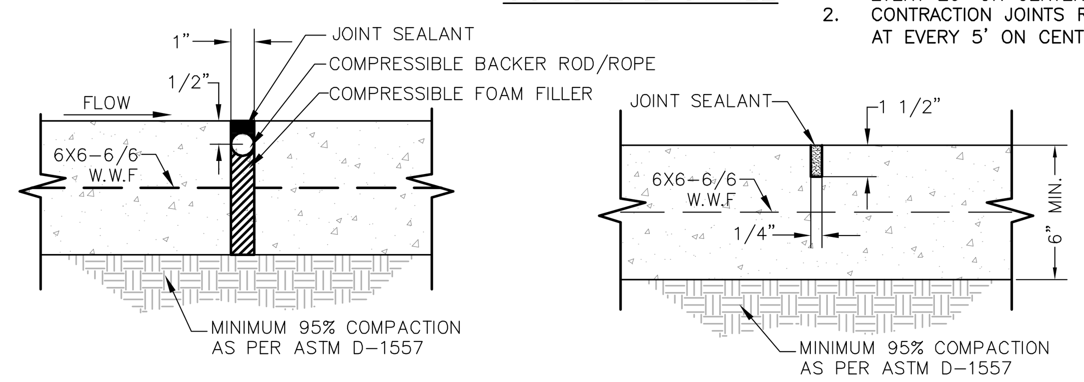
NOTE:
JOINT SEALING COMPOUND: WHERE JOINTS IN CONCRETE CONSTRUCTION ARE SHOWN TO BE SEALED, THE JOINT SEALING COMPOUND SHALL BE COLD-APPLIED TWO-COMPONENT POLY-SULFIDE SEALANT SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR USE IN SUBMERGED JOINTS. THE HANDLING PRIOR TO SEALING SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. JOINT SEALING COMPOUND SHALL BE SIKAFLEX -2C NS EZ MIX OR ENGINEER APPROVED EQUIVALENT. A TWO COMPOUND EPOXY PRIMER SUITABLE FOR THE USE IN SUBMERGED JOINTS AND COMPATIBLE WITH THE SEALER SHALL BE USED IN ALL JOINTS, COMPOUND TO BE SONNEBORN OR APPROVED EQUAL.

NOTE:
1. CEMENT STABILIZED BACKFILL: WHERE CEMENT STABILIZED BACKFILL IS SHOWN ON THE PROJECT DOCUMENTS, IT SHALL CONSIST OF A MIXTURE OF SOIL AND TWO SACKS OF TYPE I PORTLAND CEMENT PER CUBIC YARD. SOIL SHALL BE CLASSIFIED AS SW, SP, OR SM BY THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) OF ASTM D2487, FREE FROM LUMPS, CLODS OR ORGANIC MATERIAL. IF EXCAVATED MATERIAL IS NOT SUITABLE, PIT-RUN SAND SHALL BE USED. CEMENT STABILIZED BACKFILL SHALL BE MIXED IN A CONCRETE MIXER OR TRANSIT MIXER.



CONCRETE SWALE

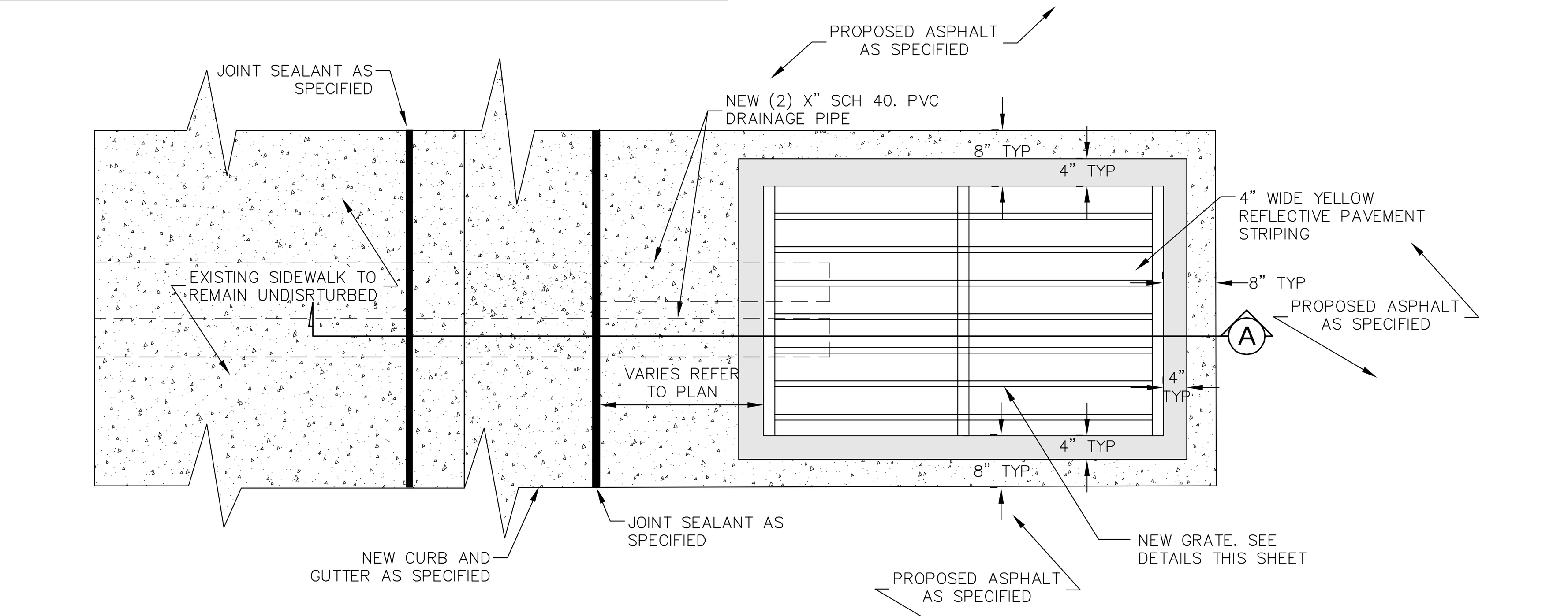
SWALE NOTE:
1. EXPANSION JOINT REQUIRED AT EVERY 25' ON CENTER
2. CONTRACTION JOINTS REQUIRED AT EVERY 5' ON CENTER



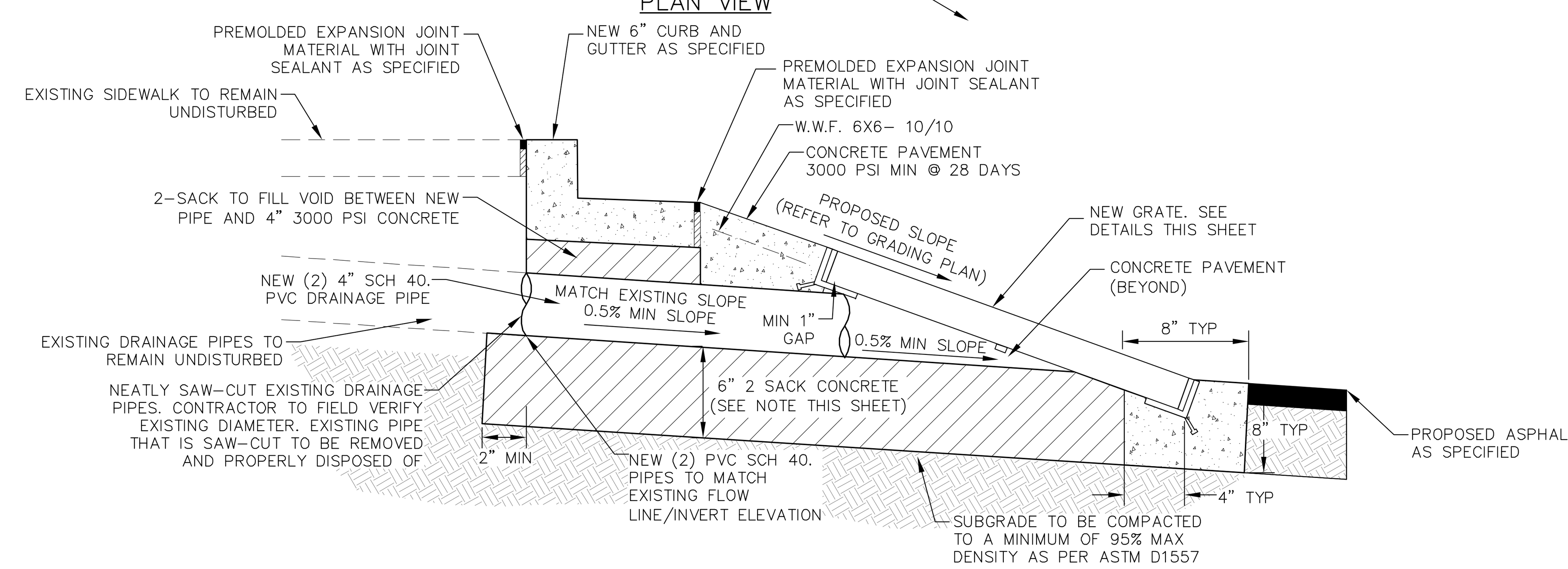
EXPANSION JOINT AT 25' O.C.
SCALE: NTS

CONTRACTION JOINT AT 5' O.C.
SCALE: NTS

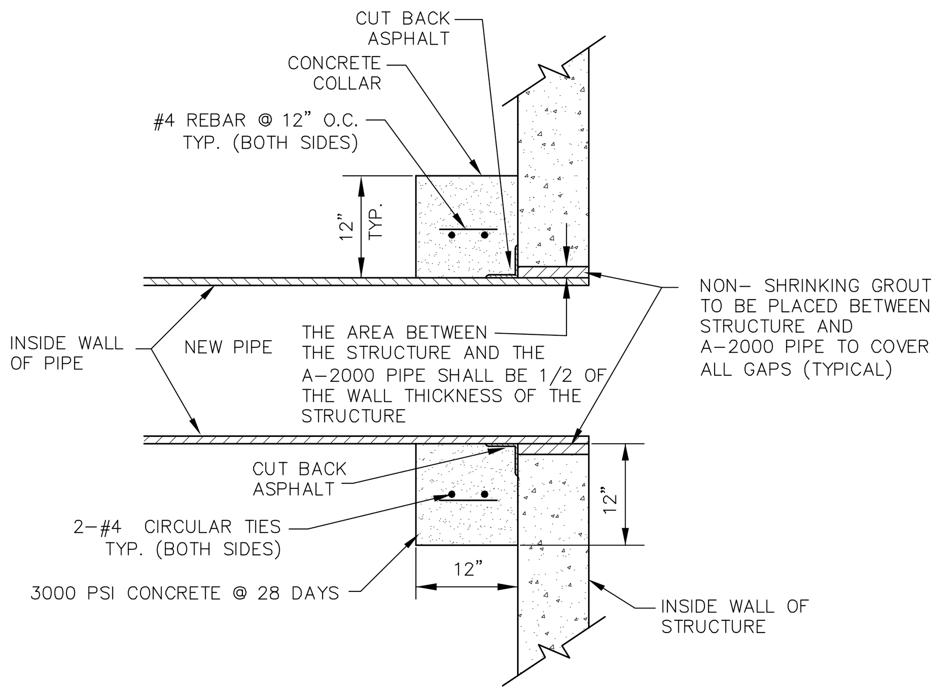
CONCRETE SWALE AND JOINT DETAILS
SCALE: N.T.S.



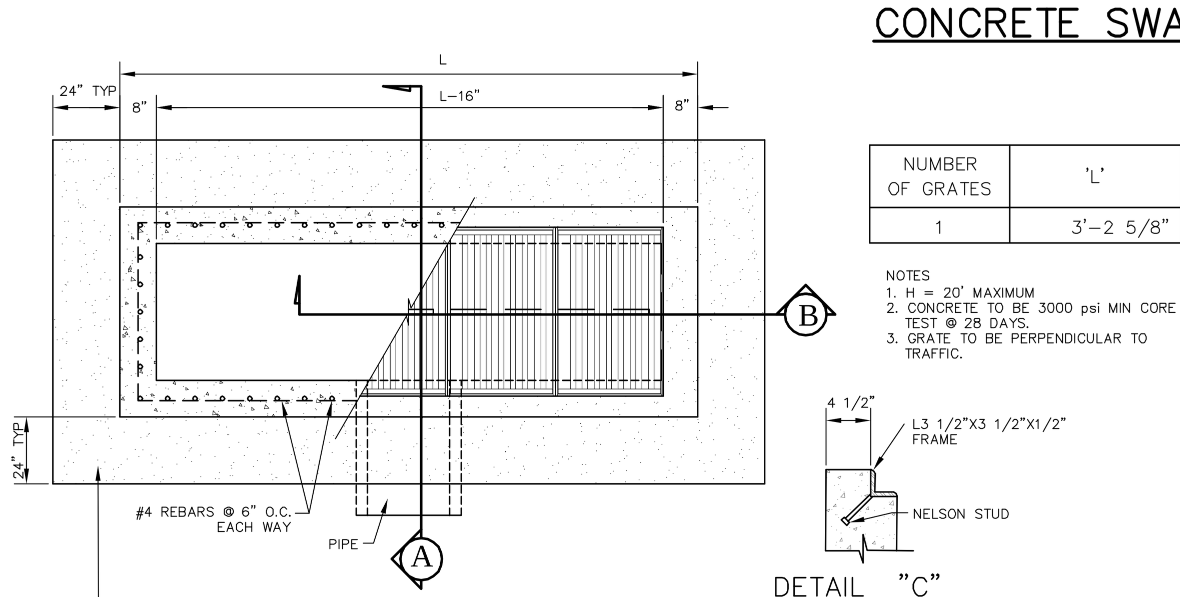
PLAN VIEW



GRATE PAVEMENT OPENING DRAINAGE PIPE DETAIL
SCALE: N.T.S.



CONCRETE COLLAR DETAIL
SCALE: N.T.S.

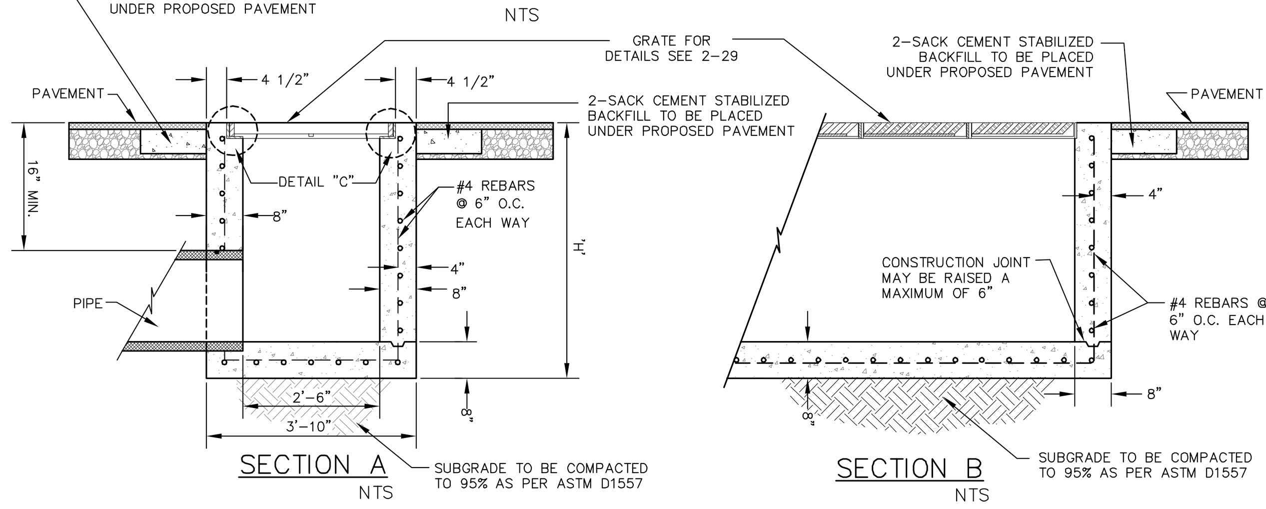


NUMBER OF GRATES	"L"
1	3'-2 5/8"

NOTES
1. H = 20' MAXIMUM
2. CONCRETE TO BE 3000 psi MIN CORE TEST @ 28 DAYS.
3. GRATE TO BE PERPENDICULAR TO TRAFFIC.

PLAN VIEW
NTS

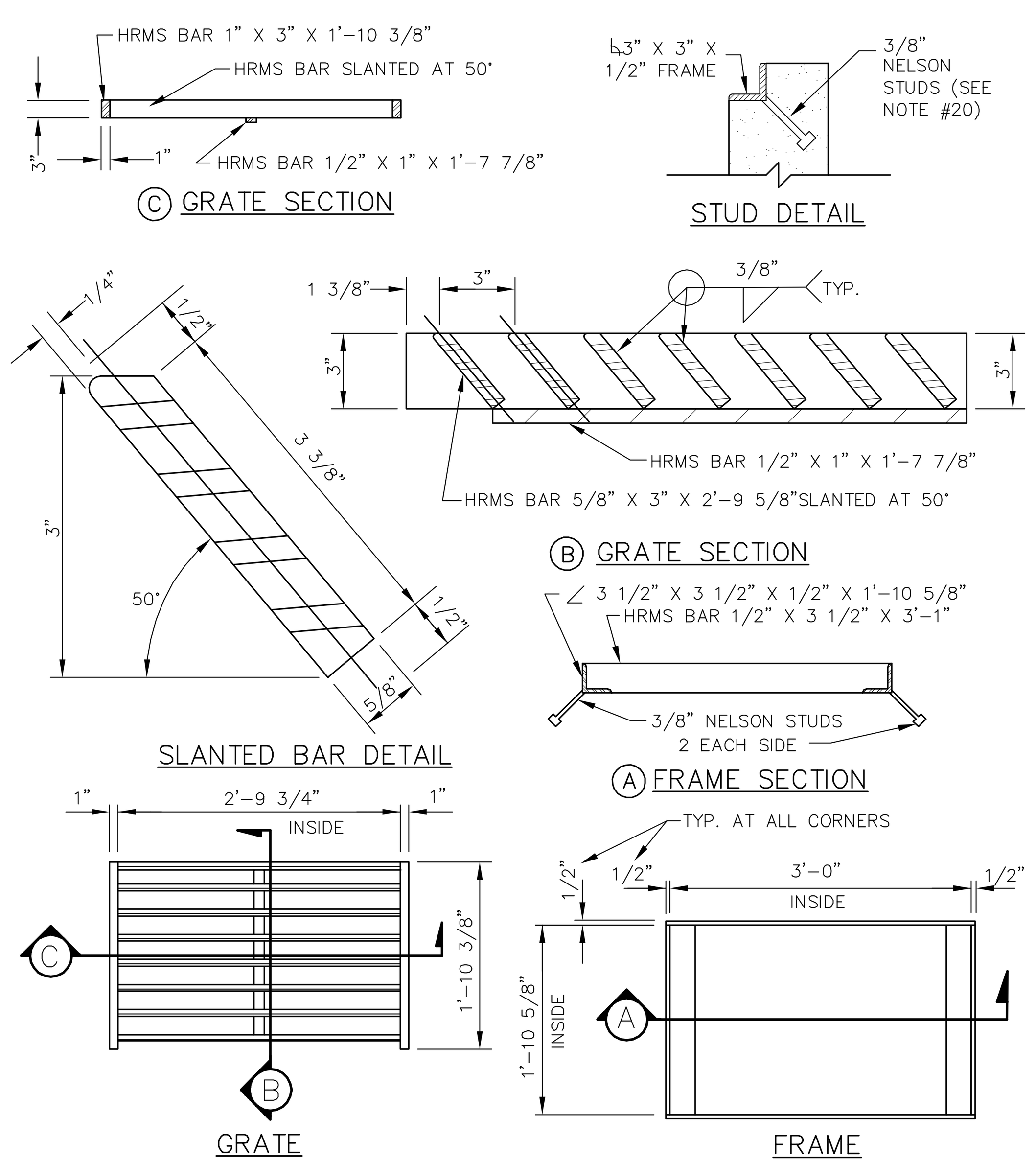
DETAIL "C"



SECTION A
NTS

SECTION B
NTS

DROP INLET TYPE III
SCALE: N.T.S.



Ⓒ GRATE SECTION

STUD DETAIL

Ⓑ GRATE SECTION

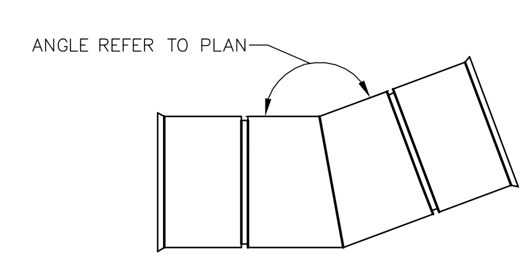
SLANTED BAR DETAIL

Ⓐ FRAME SECTION

GRATE

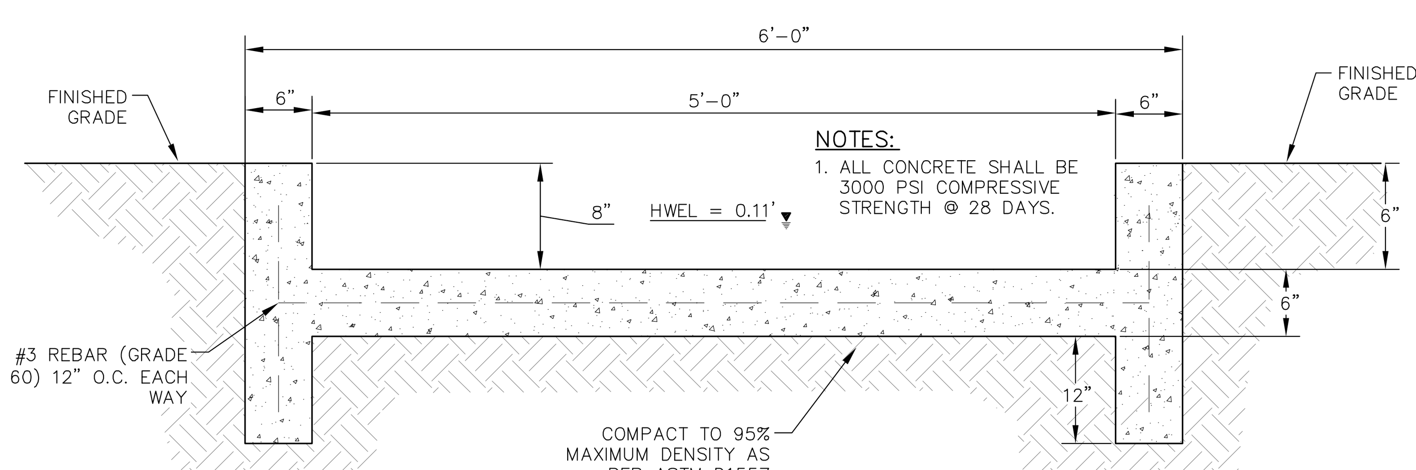
FRAME

WELDED STEEL GRATE AND FRAME DETAILS
SCALE: N.T.S.



ELBOW DETAIL
SCALE: N.T.S.

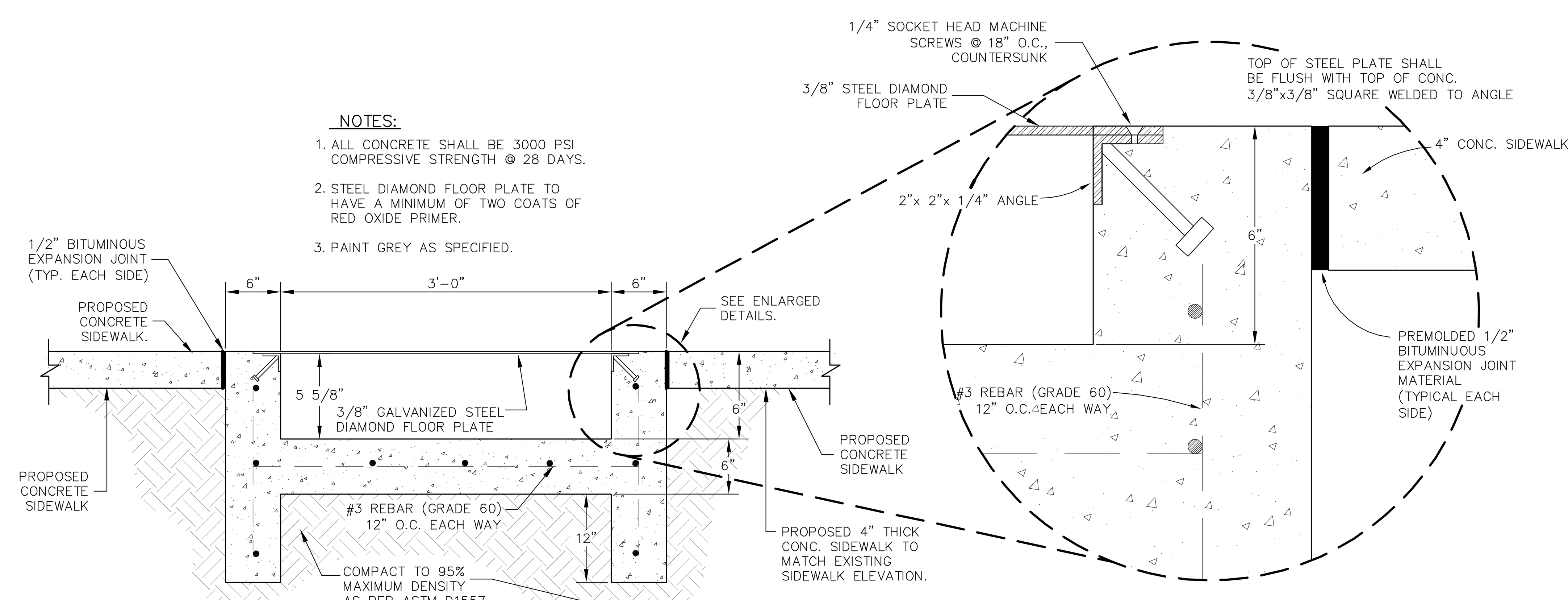
*NOTES:
1. DETAILS SHOWN ON THIS DRAWING ARE FOR REFERENCE PURPOSES ONLY. REFER TO DESIGN DRAWINGS BY ADS OR ENGINEER APPROVED EQUIVALENT.
2. STORM WATER PIPE, WATER TIGHT FITTINGS SHALL BE ADS N-12 SMOOTH INTERIOR PIPE OR ENGINEER APPROVED EQUIVALENT. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. CONTRACTOR SHALL ALSO SUBMIT GRATE INFORMATION FOR ENGINEER'S REVIEW.



NOTES:
1. ALL CONCRETE SHALL BE 3000 PSI COMPRESSIVE STRENGTH @ 28 DAYS.

CONCRETE FLUME WITHOUT PLATE
SCALE: N.T.S.

NOTES:
1. ALL CONCRETE SHALL BE 3000 PSI COMPRESSIVE STRENGTH @ 28 DAYS.
2. STEEL DIAMOND FLOOR PLATE TO HAVE A MINIMUM OF TWO COATS OF RED OXIDE PRIMER.
3. PAINT GREY AS SPECIFIED.



3' CONCRETE FLUME STEEL PLATE COVER-SECTION
SCALE: N.T.S.

QUANTUM engineering consultants incorporated
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VILLA ALEGRE APARTMENTS
SITE IMPROVEMENTS
6412 EDGEMERE BOULEVARD
EL PASO TEXAS 79925

DATE:
JUNE 2017

REVISED:

PHASE
100% CONSTRUCTION DOCUMENTS

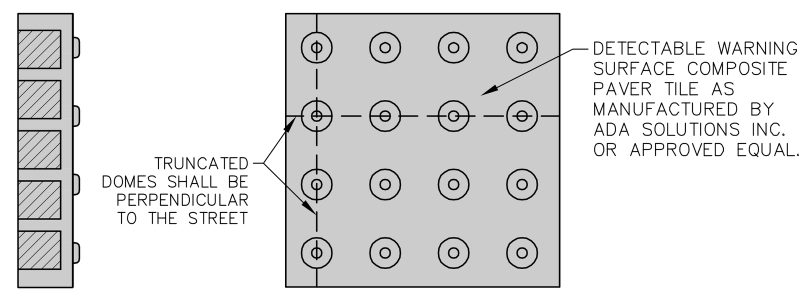
mijares mora
ARCHITECTS INC.
111 N. FESTIVAL EL PASO, TEXAS 79912 915-542-1591

PROJECT No.
1705

DRAINAGE DETAILS
C-21
21 OF 28

Jun 02,2017 4:38pm broj
Q:\Active Drawings\1712 Villa Alegre Apts\Civil\60% CD 5-24-17\C-20-22 Typ. Details.dwg

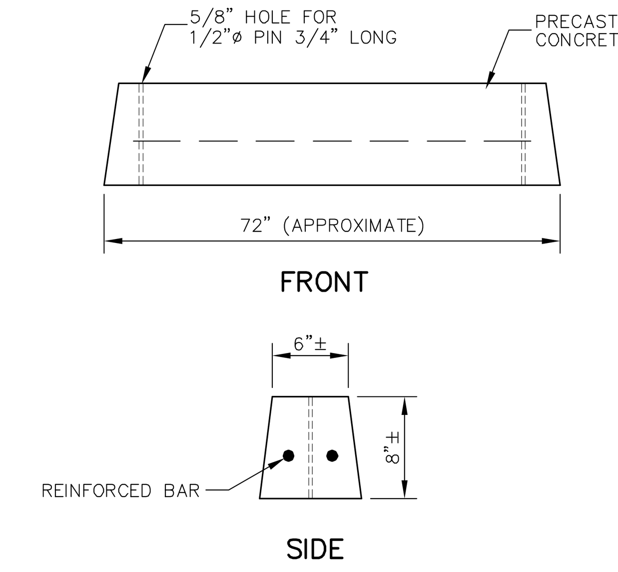
NOTE:
COMPOSITE PAVER TILE SHALL BE EMBEDDED IN CONCRETE WHILE IN PLASTIC STATE. SURFACE APPLIED PAVER TILE WILL NOT BE ACCEPTED.



PAVER TILE

NOTES:

1. ALL NEW RAMPS SHALL COMPLY WITH T.A.S. AND A.D.A. REQUIREMENTS. ANY SECTIONS NOT CONFORMING WILL BE REMOVED AT THE CONTRACTORS EXPENSE.
2. CONTRACTOR SHALL USE COMPOSITE PAVER TILE THROUGHOUT THE DETECTABLE WARNING SURFACE SHOWN ON PLANS AND AS SPECIFIED IN THIS DETAIL.
3. **DOME SIZE AND SPACING.** TRUNCATED DOMES SHALL HAVE A DIAMETER OF NOMINAL 0.9 INCHES AT THE BOTTOM, A DIAMETER OF 0.5" INCH AT THE TOP, A HEIGHT OF NOMINAL 0.2 INCHES, AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT.
4. **DOME ALIGNMENT.** DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES. DETECTABLE WARNING SURFACES SHALL EXTEND 24 INCHES MINIMUM IN THE DIRECTION OF TRAVEL AND THE FULL WIDTH OF THE CURB RAMP, LANDING, OR BLENDED TRANSITION.
5. **CONTRAST.** THERE SHALL BE A MINIMUM OF 70 PERCENT CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE, OR THE DETECTABLE WARNING SHALL BE "BRICK RED" COLOR, UNLESS OTHERWISE DIRECTED BY THE OWNER.

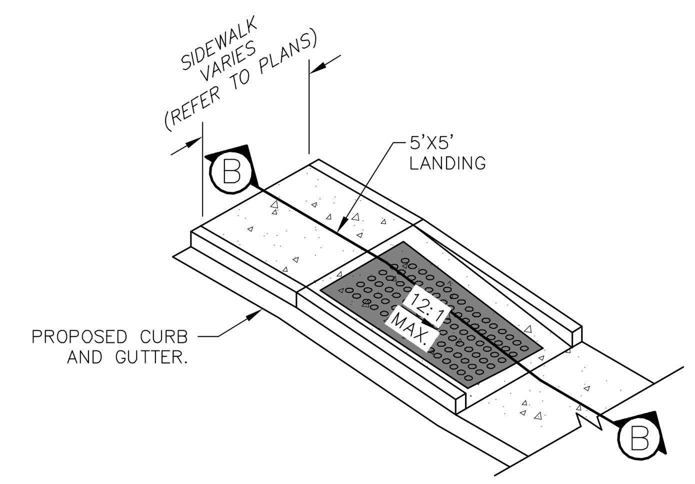


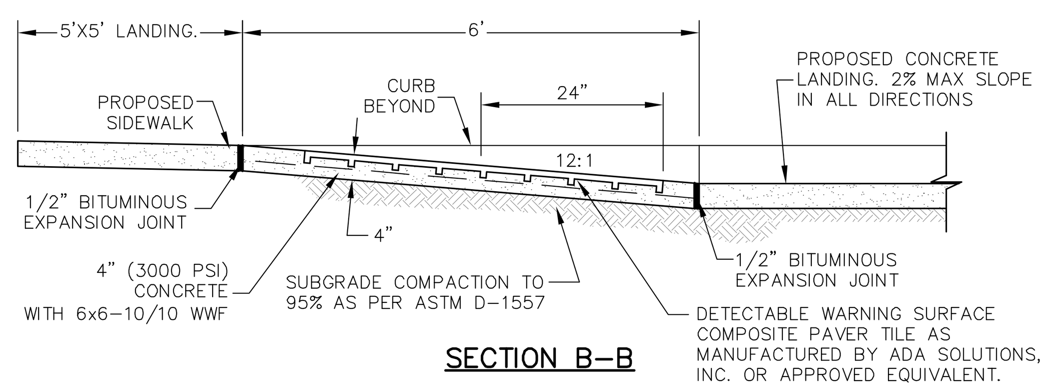
PLAN

1. ALL PAVEMENT MARKINGS SHALL COMPLY WITH TXDOT, TYPE I "HOT APPLIED THERMOPLASTIC" MARKING, AND CONFORM TO ITEM 666, TXDOT STANDARD SPECIFICATIONS

PARKING WHEEL STOP DETAIL

SCALE: 1"=1'

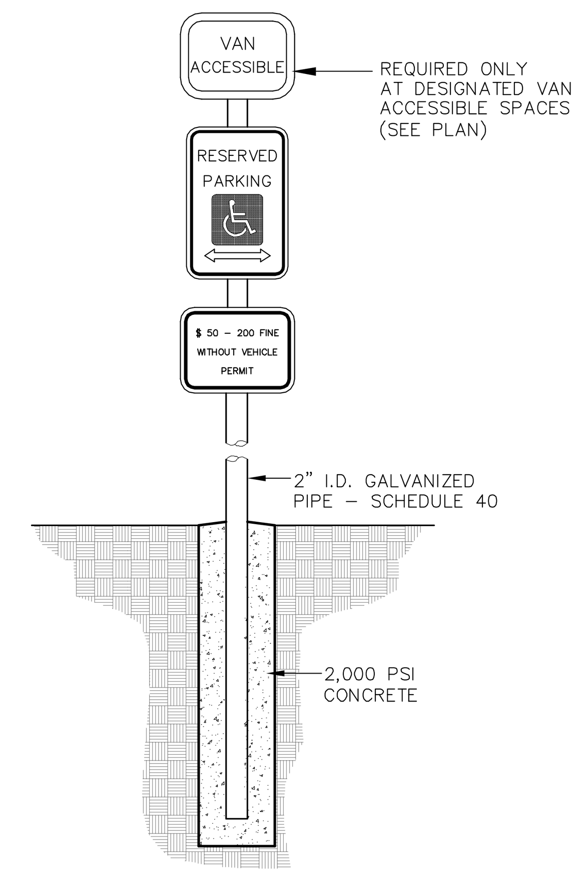




SECTION B-B

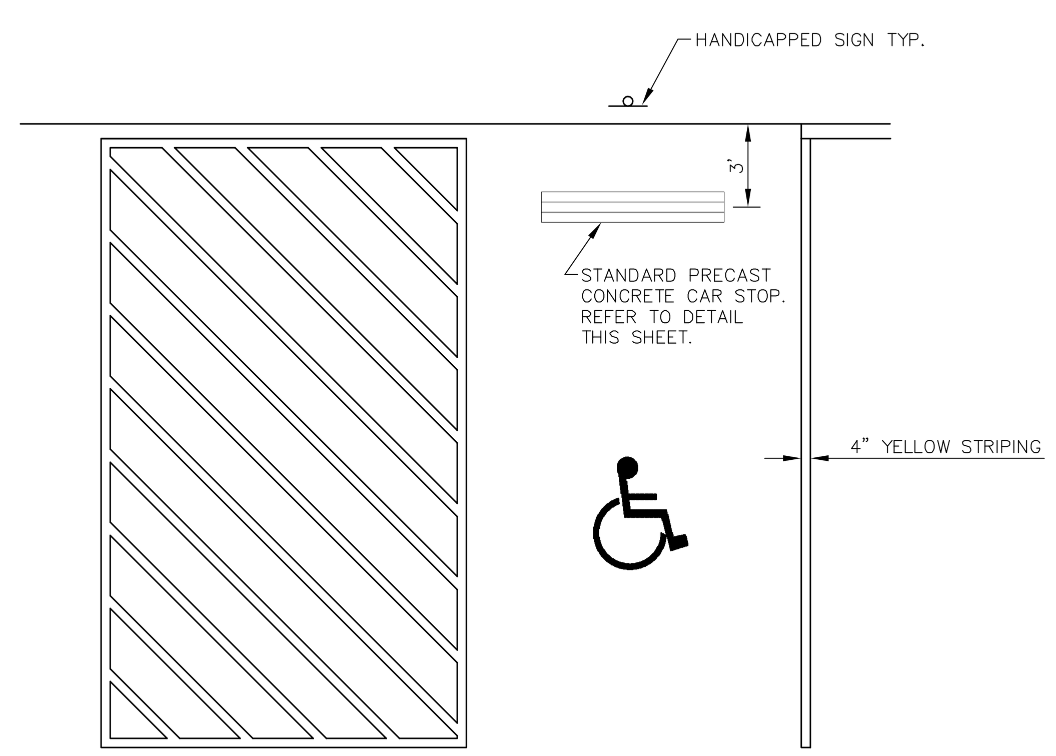
DIRECTIONAL WHEELCHAIR RAMP DETAILS

SCALE: N.T.S.



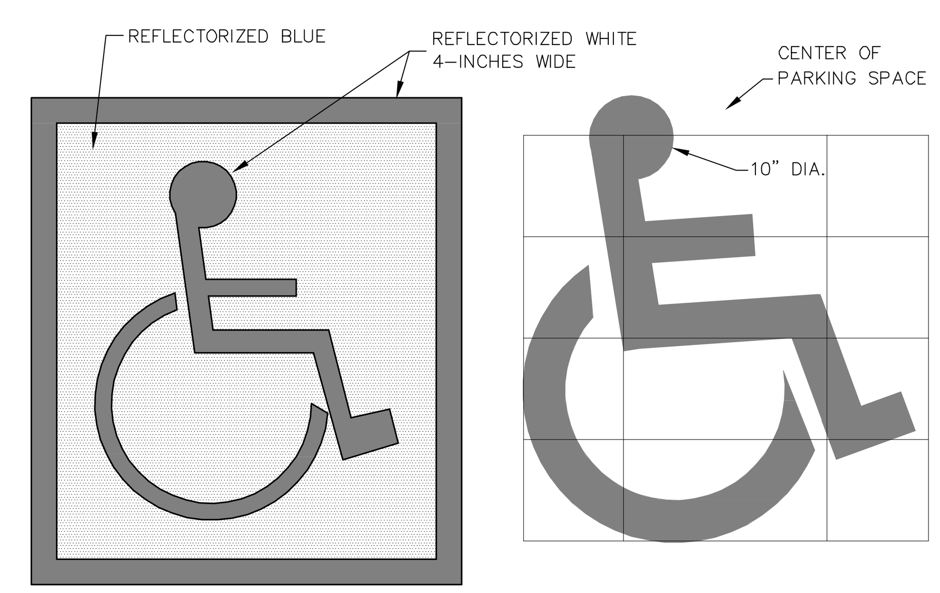
TYPICAL HANDICAPPED PARKING SIGN DETAIL

SCALE: 3/4"=1'-0"



HANDICAPPED PARKING STALL DETAIL

SCALE: N.T.S.



HANDICAP SYMBOL AND PAVEMENT MARKING DETAIL

SCALE: N.T.S.

(FOR REFERENCE PURPOSES ONLY. REFER TO MIJARES MORA ARCHITECTS, INC. PLANS FOR EXACT DETAILS.)

STATE OF TEXAS ROBERT A. GONZALES 69920 LICENSED PROFESSIONAL ENGINEER

6/1/17

VILLA ALEGRE APARTMENTS

SITE IMPROVEMENTS

6412 EDGEMERE BOULEVARD

EL PASO TEXAS 79925

DATE: JUNE 2017

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111 N. FESTIVAL EL PASO, TEXAS 79912 915-542-1591

PROJECT No. 1705

DRAINAGE DETAILS

C-22

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720 ARIZONA AVE. El Paso TX 79902
P 915.532.7272
F 915.532.7373
Texas Registered Engineering Firm F-005146

WARNING! BEFORE YOU DIG

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(915) 775-7414

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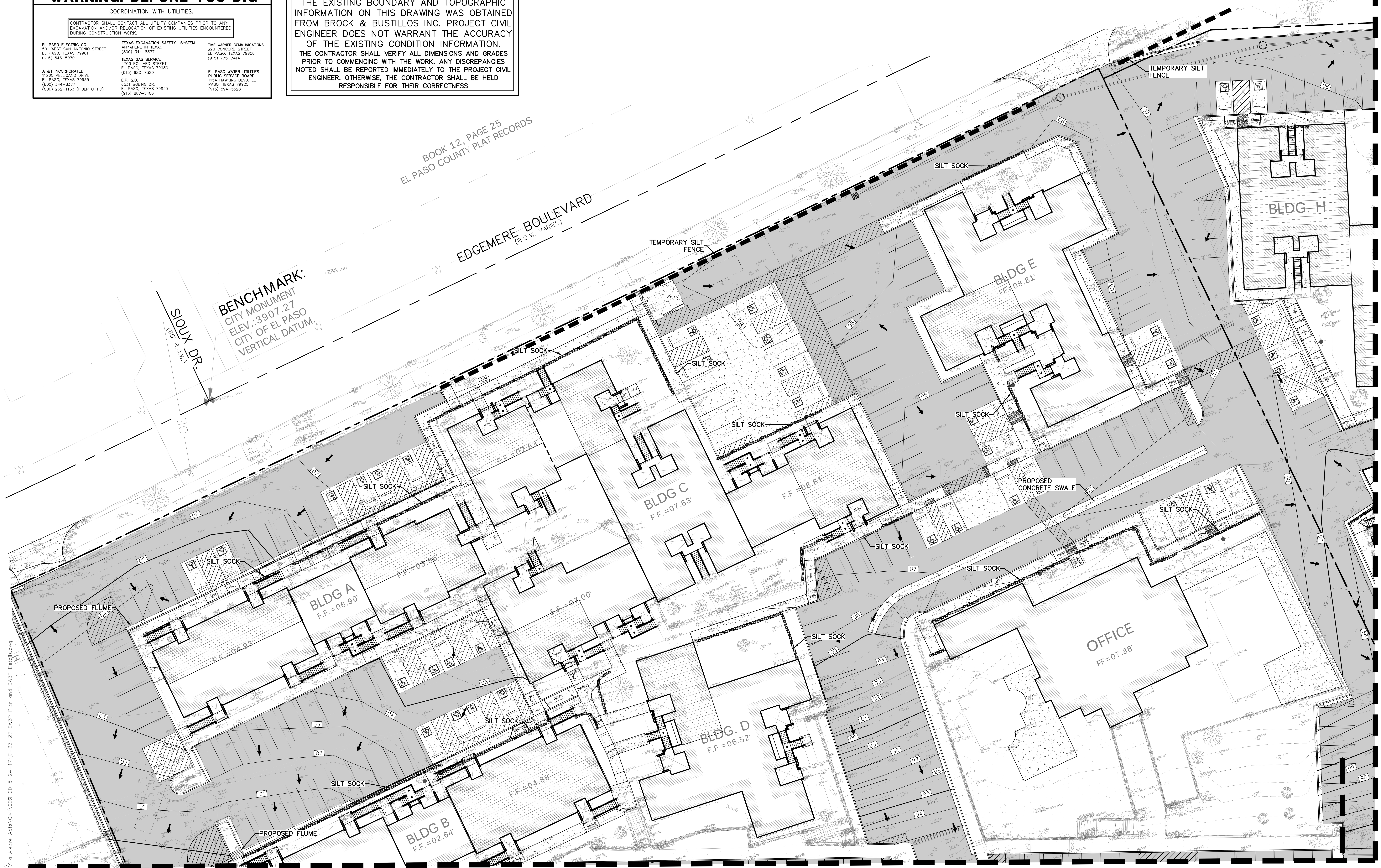

MATCH LINE. REFER TO SHEET C24.

MATCH LINE. REFER TO SHEET C25.

NORTH

STORMWATER POLLUTION PREVENTION PLAN (1 OF 4)

SCALE: 1" = 20'

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REGISTERED PROFESSIONAL ENGINEER

6/1/17

VILLA ALEGRE APARTMENTS

SITE IMPROVEMENTS

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PROJECT No.
1705

STORMWATER POLLUTION PREVENTION PLAN (1 OF 4)

C-23

QUANTUM
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Q:\Active Drawings\1712 Villa Alegre Apts\Civil\60% CD 5-24-17\C-23-27 SWPP Plan and SWPP Details.dwg

STORMWATER POLLUTION PREVENTION PLAN (2 OF 4)

SCALE: 1" = 20'

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REGISTERED PROFESSIONAL ENGINEER
6/1/17

VILLA ALEGRE APARTMENTS

SITE IMPROVEMENTS

6412 EDGEMERE BOULEVARD

EL PASO TEXAS 79925

DATE:
JUNE 2017

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El Paso TX 79902
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PROJECT No.
1705

STORMWATER POLLUTION PREVENTION PLAN (2 OF 4)

C-24

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NORTH

STORMWATER POLLUTION PREVENTION PLAN (3 OF 4)

SCALE: 1" = 20'

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El Paso TX 79902
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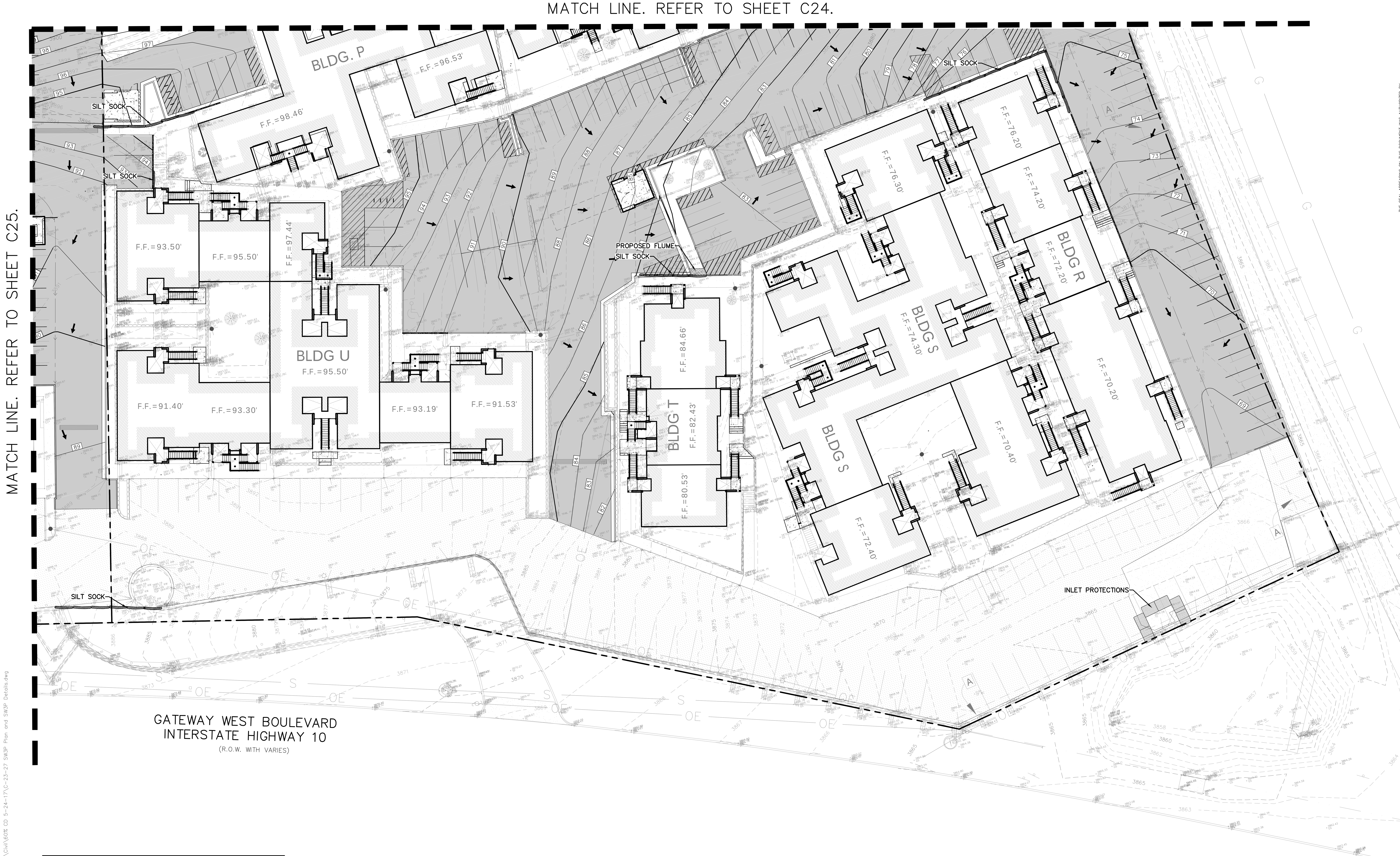
PROJECT No.
1705

STORMWATER POLLUTION PREVENTION PLAN (3 OF 4)

C-25

25 OF 28



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PROFESSIONAL ENGINEER

6/4/17

VILLA ALEGRE APARTMENTS

SITE IMPROVEMENTS

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PROJECT No.
1705

STORMWATER POLLUTION PREVENTION PLAN (4 OF 4)

C-26

26 OF 28

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NORTH

STORMWATER POLLUTION PREVENTION PLAN (4 OF 4)

SCALE: 1" = 20'

QUANTUM
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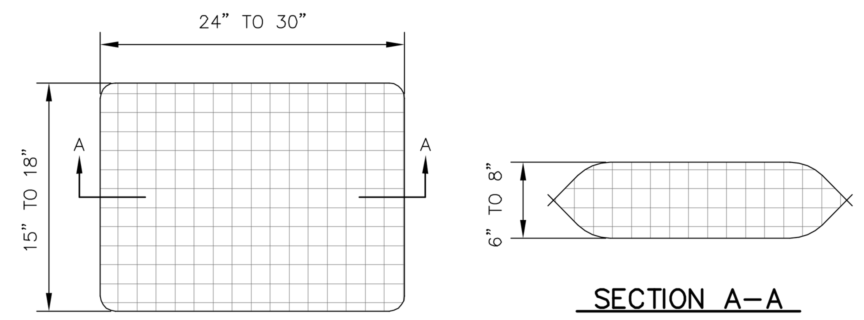
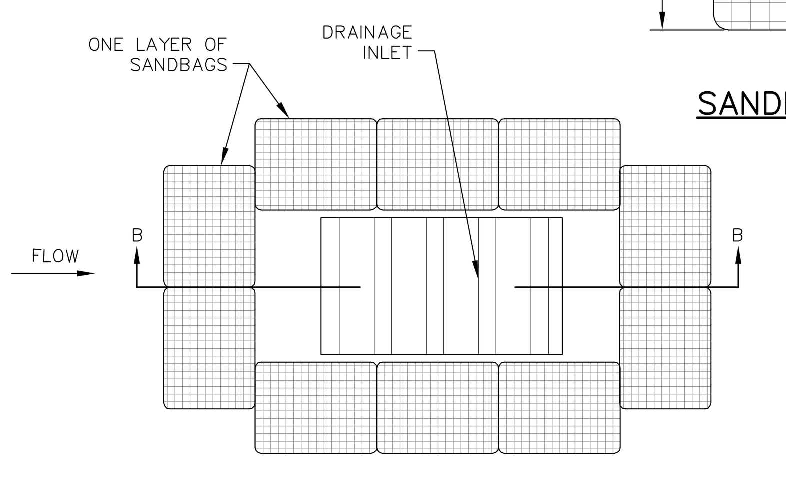
720 ARIZONA AVE.
El Paso TX 79902
P 915.532.7272
F 915.532.7373
Texas Registered Engineering Firm F-005146

CONTRACTOR SHALL CONFIRM LOCATION OF STAGING AREA AND CONSTRUCTION EXIT WITH OWNER PRIOR TO CONSTRUCTION.

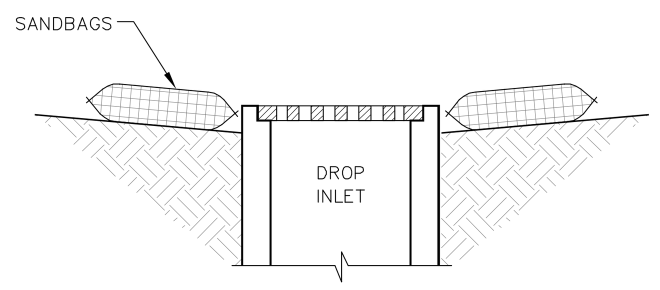


SECTION A–A

SANDBAG DETAIL
SCALE: N.T.S.



PLAN VIEW



SECTION B–B

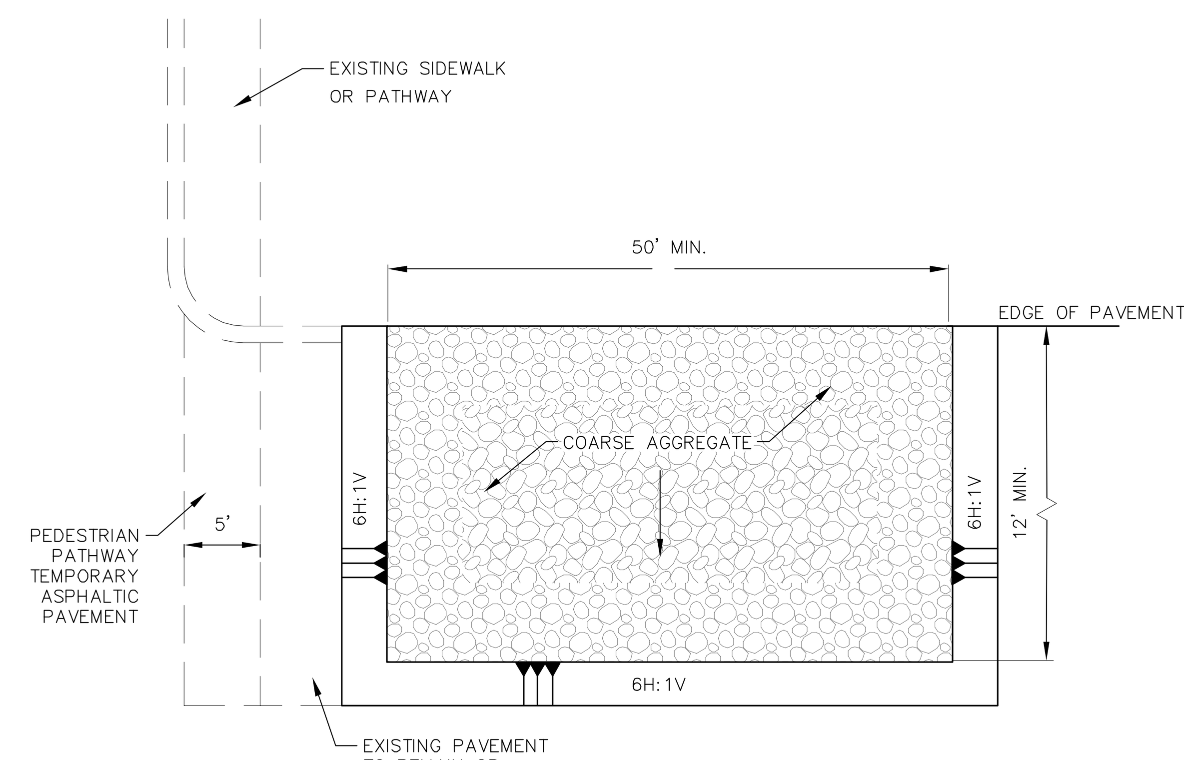
GENERAL NOTES:

1. SAND BAGS SHALL BE A MINIMUM OF 24" IN LENGTH.
2. SAND BAGS SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BAGS.
3. SAND BAGS SHALL BE REPLACED WHEN LOSS OF STRUCTURAL INTEGRITY IS APPARENT.

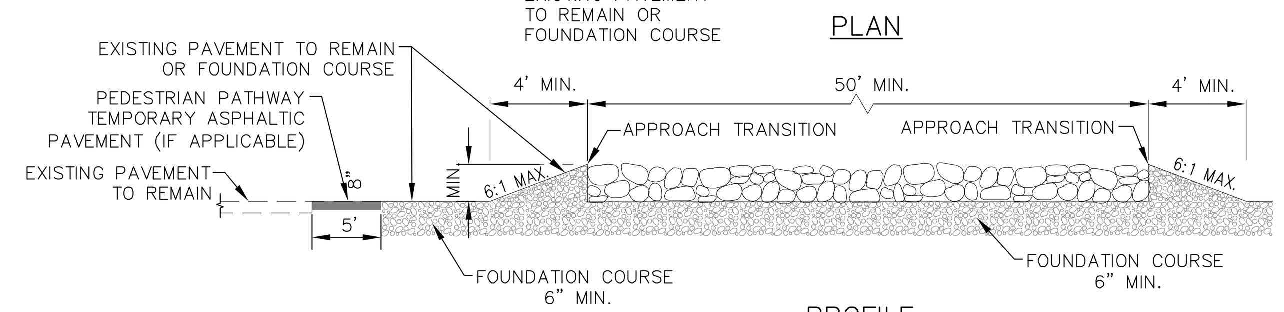
TEMPORARY INLET PROTECTION
SCALE: N.T.S.

LEGEND

3985	EXISTING CONTOURS
XX	FINAL CONTOUR ELEVATION
	SWALE
H.P.	HIGH POINT
L.P.	LOW POINT
	EXISTING DIRECTION OF STORM WATER RUNOFF
	DRAINAGE FLOW DIRECTION
	PROPOSED TEMPORARY SILT FENCE
	PROPOSED TEMPORARY INLET PROTECTION
	PROPOSED TEMPORARY STABILIZED CONSTRUCTION EXIT



PLAN



PROFILE

GENERAL NOTES:

1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'
2. THE COARSE AGGREGATE SHALL BE OPEN GRADED WITH A SIZE OF 3" TO 8". GRADATION MUST PERMIT INTERLOCKING OF AGGREGATE MATERIAL.
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. AT INTERSECTIONS THE CONSTRUCTION EXIT SHALL PROVIDE A 5' WIDE PEDESTRIAN STRIP.

CONSTRUCTION EXIT (TYPE 1)
SCALE: NTS

NOTE:

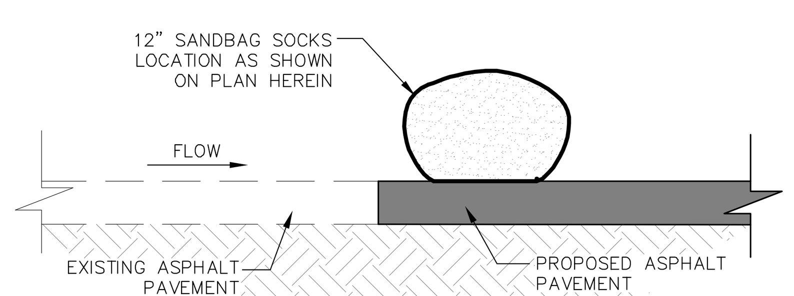
1. A DRAINAGE STUDY WAS NOT PERFORMED FOR THIS PROJECT.
2. RUN–OFF QUANTITIES, STORMWATER RUNOFF COEFFICIENTS AND DRAINAGE FLOW PATTERNS WERE NOT ALTERED IN ANY WAY FROM THE ORIGINAL GRADING AND DRAINAGE PLANS FOR THE SITE.

A. DESIGN CRITERIA AND MATERIALS PIPE SAND FILLED SOCKS

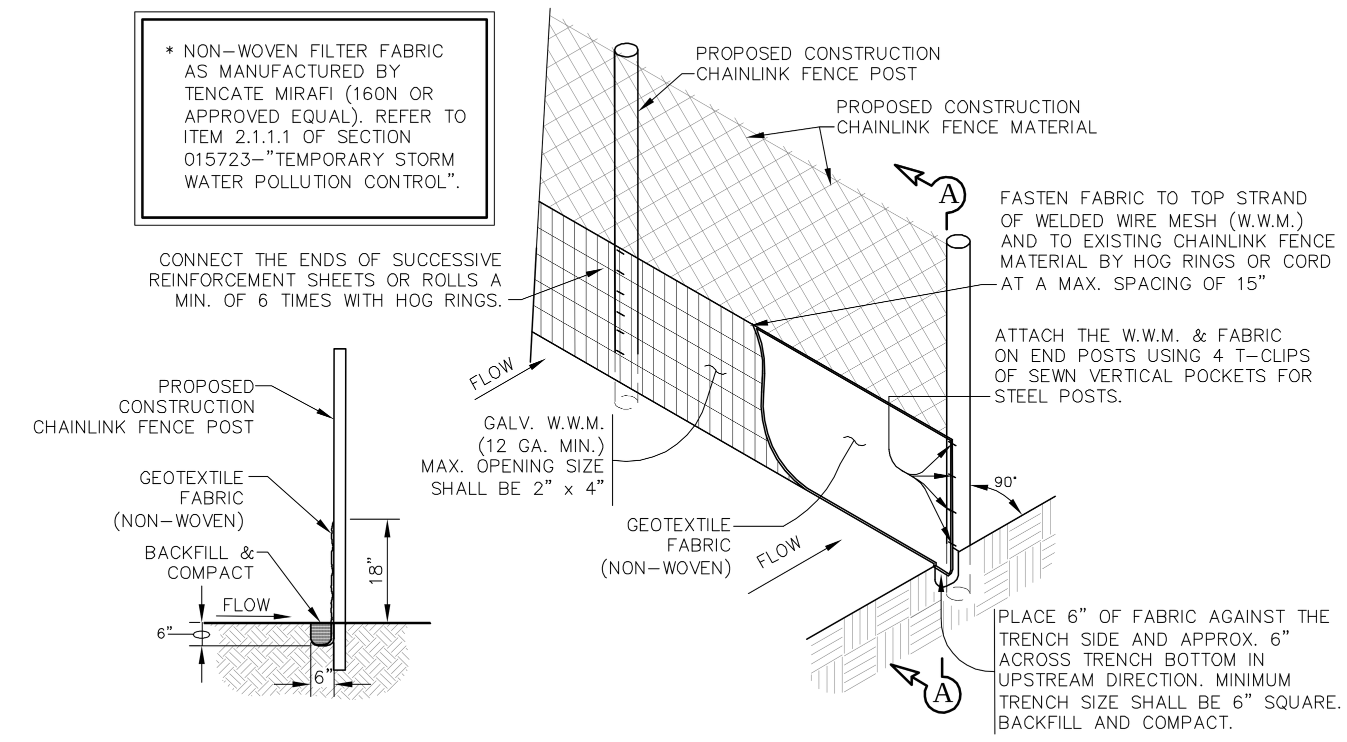
1. SAND FILLED SOCKS OR "ENGINEER APPROVED EQUAL" WILL BE USED AS A FORM OF SEDIMENT, POLLUTANT AND DEBRIS REMOVAL.
2. SAND FILLED SOCKS OR "ENGINEER APPROVED EQUAL" WILL BE PLACED AT LOCATIONS INDICATED ON THE PROJECT DOCUMENTS OR AS DIRECTED BY THE PROJECT ENGINEER.
3. STANDARD SIZE OF SAND FILLED SOCKS OR "ENGINEER APPROVED EQUAL" FOR NORMAL PROTECTION SHOULD BE 12" DIAMETER. IN SEVERE FLOW SITUATIONS, THE PROJECT ENGINEER MAY RECOMMEND LARGER SOCKS OF 18" OR 24" DIAMETER. THE SOCKS CAN BE STACKED ONE ON TOP OF THE OTHER, IF ADDITIONAL HEIGHT IS REQUIRED.
4. THE SOCKS SHALL BE CONSTRUCTED OF A 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" (9.38 MM) KNITTED MESH NETTING MATERIAL AND FILLED WITH SAND MATERIAL APPROVED BY THE PROJECT ENGINEER.
5. THE SOCKS SHALL EITHER BE MADE ON–SITE OR DELIVERED TO THE JOBSITE.

B. MAINTENANCE

1. IF THE SOCKS BECOME CLOGGED WITH DEBRIS AND SEDIMENT, THEY SHALL BE MAINTAINED SO AS TO ASSURE PROPER DRAINAGE AND WATER FLOW THROUGH THE CHANNEL.
2. THE CONTRACTOR SHALL MAINTAIN SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
3. THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE SOCKS, OR AS DIRECTED BY THE PROJECT ENGINEER.
4. IF THE SOCKS REQUIRE REPAIR, DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED AS NECESSARY.
5. THE SOCKS MAY BE REMOVED OR DISPERSED ONCE THE CONCRETE CHANNEL LINING IS COMPLETE. THE NETTING MATERIAL WILL BE DISPOSED OF IN NORMAL TRASH CONTAINERS OR REMOVED BY THE CONTRACTOR.



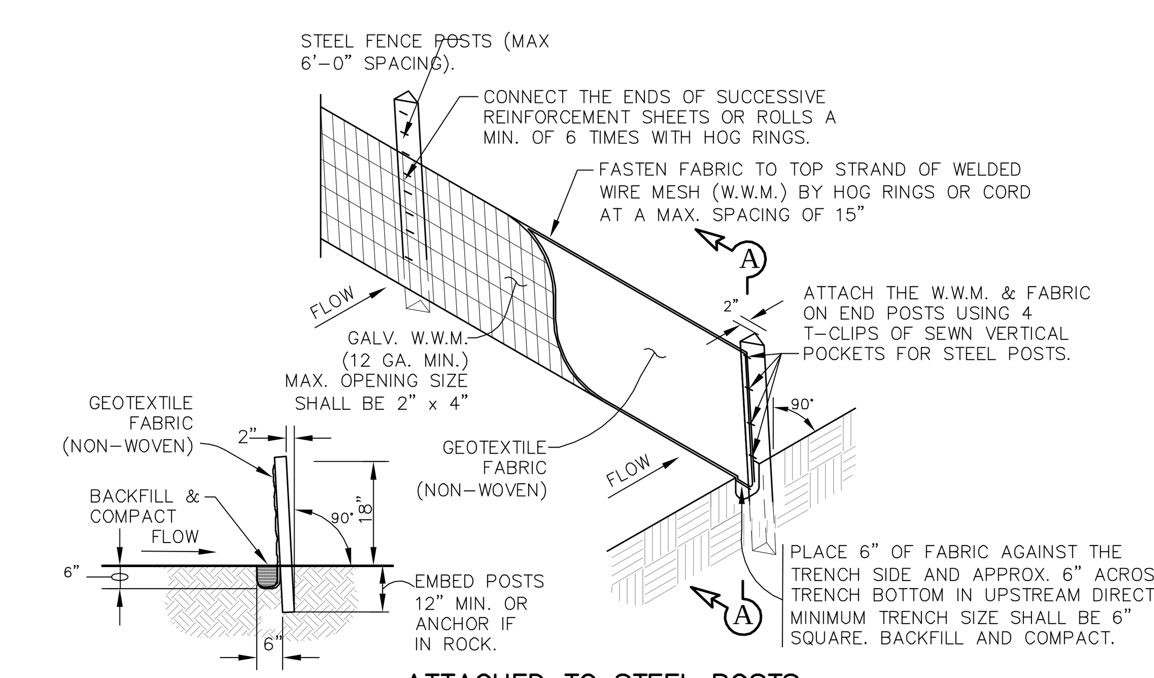
TYPICAL SILT SOCK SECTION A–A
SCALE: NTS



ATTACHED TO CONSTRUCTION CHAINLINK FENCE
(CONFIRM WITH ARCHITECTURAL PLANS FOR LIMITS OF CONSTRUCTION CHAINLINK FENCING)
SCALE: NTS

SEDIMENT CONTROL FENCE NOTES:

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POSTS MUST BE EMBEDDED A MINIMUM OF 12".
2. 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 THE FLOW. WHERE FENCE CAN NOT BE TRENCHED INTO THE SURFACE (e.g. PAVEMENT) THE FABRIC SHALL BE WEIGHTED DOWN WITH ROCK OR 1" X 4" LUMBER SECURELY FASTENED TO THE SURFACE, ON THE UPSTREAM SIDE TO PREVENT FLOW UNDER THE FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6" DEEP AND 6" WIDE TO ALLOW FOR THE NON–WOVEN FILTER FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. THE NON–WOVEN FILTER FABRIC SHALL BE SECURELY FASTENED TO THE WOVEN WIRE BACKING, WHICH IN TURN IS SECURELY FASTENED TO THE STEEL FENCE POST.
5. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6". THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTRATION.
6. INSPECTION SHALL BE MADE WEEKLY AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY, IF NEEDED.
7. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED.



ATTACHED TO STEEL POSTS
SCALE: NTS

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 0.22 CFS/FT. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES. SILT FENCING AT RIGHT–OF–WAY SHALL BE PLACED SO AS NOT TO BLOCK ANY EXISTING DRIVEWAYS.

TEMPORARY SILT FENCE
SCALE: NTS

WARNING! BEFORE YOU DIG

COORDINATION WITH UTILITIES:

CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION AND/OR RELOCATION OF EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION WORK.

SOUTHERN UNION GAS CO.
4700 POLLARD STREET
EL PASO, TEXAS 79930
ARMANDO REDA, 680–7243

EL PASO ELECTRIC CO.
501 WEST SAN ANTONIO STREET
EL PASO, TEXAS 79901
MR. BILL ENGELS, (915) 543–4108
MOBILE, (915) 539–7184

EL PASO COUNTY WATER AUTHORITY
1539 PAWLING DRIVE
EL PASO, TEXAS 79927
MR. ROBERT DIAZ DE LEON
(915) 852–3917

SOUTHWESTERN BELL TELEPHONE
11200 PELLICANO DRIVE
EL PASO, TEXAS 79935
JOE GRANADOS
(915) 595–5140

TIME WARNER COMMUNICATIONS
#20 CONCORD STREET
EL PASO, TEXAS 79906
CONSTRUCTION, (915) 775–7414

TEXAS EXCAVATION SAFETY SYSTEM
ANYWHERE IN TEXAS
1–800–344–8377

QUANTUM engineering consultants incorporated
720 ARIZONA AVE.
El Paso TX 79902
P 915.532.7272
F 915.532.7373
Texas Registered Engineering Firm F-005146

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY **ROBERT A. GONZALES, P.E. 699N.** ALTERATIONS OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER **THE TEXAS ENGINEERING PRACTICE ACT.**

STATE OF TEXAS
ROBERT A. GONZALES
69920
REGISTERED PROFESSIONAL ENGINEER
6/1/17

VILLA ALEGRE APARTMENTS
SITE IMPROVEMENTS
6412 EDGEMERE BOULEVARD
EL PASO TEXAS 79925

DATE:
JUNE 2017

REVISED:

PHASE
100% CONSTRUCTION DOCUMENTS

mijares • mora
ARCHITECTS INC.
111 N. FESTIVAL EL PASO, TEXAS 79912 915-542-1591

PROJECT No.
1705

STORMWATER POLLUTION PREVENTION DETAILS

C-27

Jun. 02,2017 4:47pm broj
Q:\Active Drawings\1712 Villa Alegre Apts\Civil\60% CD 5-24-17\C-23-27 SW3P Plan and SWP3 Details.dwg

SITE DESCRIPTION

PROJECT NAME AND LOCATION: VILLA ALEGRE APARTMENTS AND PAVEMENT REHABILITATION LOCATED AT 6412 EDGEMERE BLVD WITHIN THE CITY OF EL PASO, EL PASO COUNTY, TEXAS.

PROJECT DESCRIPTION: THE PROJECT CONSISTS OF SEVERAL MULTI-FAMILY HOUSING BUILDINGS IN EL PASO, TEXAS WHICH WILL INCLUDE SITE IMPROVEMENTS SUCH AS BUILDING FACADE, NEW ASPHALTIC PAVEMENT, CONCRETE CURB, CONCRETE CURB AND GUTTER, CONCRETE DRAINAGE FLUMES, AND DRAINAGE SYSTEMS.

EXISTING CONDITIONS: CURRENTLY, THE PROPERTY CONTAINS SEVERAL MULTI-FAMILY BUILDINGS WITH ASPHALTIC PAVEMENT PARKING AND DRIVEWAY AREAS, CONCRETE CURB AND CONCRETE SIDEWALKS.

MAJOR SOIL DISTURBING ACTIVITIES: SOIL DISTURBING ACTIVITIES WILL CONSIST OF SELECTIVE DEMOLITION, CLEARING AND GRUBBING, SCARIFYING, GRADING INCLUDING CUTTING AND FILLING, AND COMPACTING FOR THE CONSTRUCTION OF A NEW PAVEMENT AND OTHER SITE DETAILS (EX: SIDEWALKS, CURB, CURB AND GUTTER, ETC.) EROSION AND SEDIMENT CONTROL MEASURES AND NEW LANDSCAPING ARE ALSO INCLUDED.

TOTAL PROJECT AREA: 14.27 ACRES±

TOTAL AREA TO BE DISTURBED: 6.55 ACRES±

WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.95

EXISTING CONDITION OF SOIL AND VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: THE PROJECT SITE IS FULLY DEVELOPED WITH BUILDINGS, ASPHALTIC PAVEMENT AND MISCELLANEOUS CONCRETE STRUCTURES, WITH MINIMAL VEGETATIVE COVER (LANDSCAPING). ALTHOUGH IT IS NOT KNOWN WHETHER OR NOT GROUNDWATER EXISTS, IT IS POSSIBLE FOR A GROUND WATER TABLE TO BE PRESENT DURING OTHER TIMES OF THE YEAR DEPENDING UPON CLIMATE AND RAINFALL CONDITIONS.

NAME OF RECEIVING WATERS: THE STORMWATER RUNOFF FROM THE SITE TRAVELS TO DIFFERENT LOCATIONS. THE MAJORITY OF THE SITE RUNOFF WILL SHEETFLOW SOUTH TO AN EXISTING RETENTION POND STRATEGICALLY LOCATED AT THE SOUTHEAST CORNER OF THE PROPERTY. A MINOR AREA OF THE SITE ALONG THE WESTERN SIDE OF THE SITE RUNOFF WILL SHEETFLOW TO AN INLET LOCATED IN THE SOUTHWEST CORNER OF THE PROPERTY. RUNOFF COEFFICIENTS, OR FLOW PATTERNS WERE NOT ALTERED IN AMY WAY FROM THE ORIGINAL GRADING AND DRAINAGE SCHEME FOR THE SITE.

OWNER CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OWNER : SIGNED ______ DATE ______

OWNER : NAME ______ DATE ______

TITLE ______ DATE ______

EROSION AND SEDIMENT CONTROL

SOIL STABILIZATION PRACTICES

- ____ TEMPORARY SEEDING
- ____ PERMANENT PLANTING, SODDING, OR SEEDING
- ____ MULCHING
- ____ SOIL RETENTION BLANKET
- ____ BUFFER ZONES
- __P__ PRESERVATION OF NATURAL RESOURCES

OTHER: WATERING

STRUCTURAL PRACTICES: (T-TEMPORARY; P-PERMANENT)

- __T__ SILT FENCES
- __T__ HAY BALES
- __T__ SILT SOCKS
- ____ ROCK BERMS
- ____ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- ____ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- ____ DIVERSION DIKE AND SWALE COMBINATIONS
- ____ PIPE SLOPE DRAINS
- __P__ CONCRETE FLUMES
- ____ ROCK BEDDING AT CONSTRUCTION EXIT
- ____ TIMBER MATTING AT CONSTRUCTION EXIT
- ____ CHANNEL LINERS
- ____ SEDIMENT TRAPS
- ____ SEDIMENT BASINS
- ____ STORM INLET SEDIMENT TRAP
- ____ STONE OUTLET STRUCTURES
- __P__ CURBS AND GUTTERS
- __P__ STORM DRAINS
- ____ VELOCITY CONTROL DEVICES
- ____ VEGETATED SWALES & NATURAL DEPRESSIONS

OTHER: ______

SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES AND APPROXIMATE DURATIONS:

1. BEGIN CONSTRUCTION – MOBILIZATION
2. INSTALL INITIAL STORMWATER POLLUTION PREVENTION (SWPPP) MEASURES AS INDICATED IN THE SWPPP PLAN.
3. CLEAR AND GRUB
4. SITE GRADING – CUTTING, FILLING AND COMPACTING
5. PERFORM PERIODIC INSPECTIONS OF THE SWPPP STRUCTURES. PERFORM MAINTENANCE OR REPLACEMENTS AS NEEDED. (DURATION OF CONSTRUCTION)
6. EXCAVATION OF SITE
7. CONSTRUCTION OF SITE IMPROVEMENTS
8. END CONSTRUCTION – FINAL STABILIZATION, DEMOBILIZATION, REMOVAL OF SWPPP CONTROLS AND SUBMIT NOTICE OF TERMINATION

GENERAL CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT THAT AUTHORIZES STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNED: ______ COMPANY: ______

NAME: ______ ADDRESS: ______

TITLE: ______ TELEPHONE: ______

DATE: ______

SUB – CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I WILL COORDINATE, EITHER THROUGH THE GENERAL CONTRACTOR, OWNER, OR DIRECTLY, WITH THE CONTRACTOR(S) AND/OR SUBCONTRACTOR(S) IDENTIFIED IN THE POLLUTION PREVENTION PLAN HAVING RESPONSIBILITY FOR IMPLEMENTING STORM WATER CONTROL MEASURES TO MINIMIZE ANY IMPACT MY ACTIONS MAY HAVE ON THE EFFECTIVENESS OF THESE STORM WATER CONTROLS MEASURES.

SIGNED: ______ SIGNED: ______

NAME: ______ NAME: ______

TITLE: ______ TITLE: ______

COMPANY: ______ COMPANY: ______

ADDRESS: ______ ADDRESS: ______

TELEPHONE: ______ TELEPHONE: ______

DATE: ______ DATE: ______

INSPECTION AND MAINTENANCE REPORT FORM

TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE

INSPECTOR: ______ DATE: ______

INSPECTOR'S QUALIFICATIONS:

DAYS SINCE LAST RAINFALL: ______

AMOUNT OF LAST RAINFALL: ______ INCHES

STABILIZATION MEASURES

DRAINAGE AREA	DAY SINCE LAST DISTURBANCE	DAY SINCE NEXT DISTURBANCE	STABILIZED YES/NO	STABILIZED WITH	CONDITION
DA-1					
DA-2					
DA-3					
DA-4					

STABILIZATION REQUIRED:

TO BE PERFORMED BY ______ ON OR BEFORE: ______

SEDIMENT BASIN:

DEPTH OF SEDIMENT BASIN	CONDITIONS OF BASIN SIDE SLOPES	ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT	CONDITION OF OUTFALL FROM SEDIMENT BASIN

MAINTENANCE REQUIRED FOR SEDIMENT BASIN:

TO BE PERFORMED BY ______ ON OR BEFORE: ______

OTHER CONTROLS

STABILIZED CONSTRUCTION ENTRANCE:

DOES MUCH SEDIMENT GET TRACKED ON TO ROAD	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE	IS THE CULVERT BENEATH THE ENTRANCE WORKING

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE:

TO BE PERFORMED BY ______ ON OR BEFORE: ______

PERIMETER STRUCTURAL CONTROLS

DATE: ______

SILT FENCE AND STRAW BALES

DRAINAGE AREA PERIMETER	HAS SILT REACHED 1/3 OF FENCE HEIGHT	IS FENCE PROPERTY SECURED?	IS THERE EVIDENCE OF WASHOUT OR OVERTOPPING
DA-1			
DA-2			
DA-3			
DA-4			

MAINTENANCE REQUIRED FOR SLIT FENCE AND STRAW BAILS:

TO BE PERFORMED BY ______ ON OR BEFORE: ______

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN:

REASONS FOR CHANGES

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICATION PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE: ______ DATE: ______

BEST MANAGEMENT PRACTICES CONTROLS

I WASTE MATERIALS:

ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE. THE TRANSIT DUMPSTER SHALL COMPLY WITH ORDINANCE 18.52.010 (ENCLOSURE & REMOVAL OF WASTE MATERIALS DURING CONSTRUCTION). THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY ORDINANCE 9.04 (SOLID WASTE MANAGEMENT) AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL.

II HAZARDOUS WASTE:

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPT. AND TCEQ.

III SANITARY WASTE:

ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED, CHAPTER 18.08 (BUILDING CODE), BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

IV SPILL PREVENTION:

THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF.

V GOOD HOUSEKEEPING:

A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB
B. NEATLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER
C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER
D. DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER
E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING THE CONTAINER
F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL

VI HAZARDOUS PRODUCTS:

PRACTICES USED TO REDUCE RISKS:
A. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE
B. RETAIN ORIGINAL LABELS, PRODUCT INFORMATION AND MATERIAL SAFETY DATA SHEETS (MSDS)
C. DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S OR LOCAL & STATE RECOMMENDED METHODS

VII PETROLEUM PRODUCTS:

ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

VIII SPILL CONTROL PRACTICES:

A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES:
B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE:
C. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY
D. SPILL AREA SHALL BE WELL VENTILATED AND APPROPRIATE CLOTHING WILL BE WORN:
E. ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY
F. MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING

IX MAINTENANCE AND INSPECTION PROCEDURES:

ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE A MONTH OR WITHIN 24-HOURS PRIOR TO ANTICIPATED STORM EVENT AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING ARID PERIODS WILL BE CONDUCTED MONTHLY. BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY. A REPORT SUMMARIZING THE SCOPE OF INSPECTION SHALL BE DONE & RETAINED ALONG WITH THE SDPCP.

X REMARKS:

DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEANED AS SOON AS PRACTICABLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.

XI BATCH / ASPHALT PLANT:

NO CONCRETE OR ASPHALT MATERIAL WILL BE BATCHED ON-SITE. THESE CONSTRUCTION MATERIALS SHALL BE OBTAINED FROM A SUPPLIER PRODUCING THESE MATERIALS OFF-SITE IN COMPLIANCE TO ALL FEDERAL REGULATIONS. ROCKWALL MORTAR BATCHED ON-SITE SHALL COMPLY TO THESE STORMWATER POLLUTION PREVENTION MEASURES AND ALL NPDES REQUIREMENTS.

XII LISTED ENDANGERED OR THREATENED SPECIES AND CRITICAL HABITAT:

THE PROJECT SITE IS LOCATED IN AN UNDEVELOPED TRACT OF LAND. THE EL PASO COUNTY LIST OF ENDANGERED OR THREATENED SPECIES WAS REVIEWED AND NO SPECIES HAVE BEEN IDENTIFIED AT THE PROPOSED SITE.

XIII HISTORIC IMPACT:

A REVIEW OF AVAILABLE TEXAS HISTORICAL COMMISSION (THC) AND NATIONAL REGISTER OF HISTORIC PLACES (NRHP) INFORMATION INDICATED THAT THERE ARE NO KNOWN SITES ELIGIBLE FOR HISTORIC RECORD LISTING WITHIN THE AREA OF THE PROPOSED PROJECT.

XIV SOURCES OF NON-STORM WATER DISCHARGES:

THE FOLLOWING SUBSTANCES ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

CONCRETE, FUEL TANKS, LUBRICANTS, DETERGENTS, FERTILIZERS, CLEANING SOLVENTS,PAINTS, CURING COMPOUNDS, ASPHALTIC PRODUCTS, DUMPSTERS AND PORTABLE TOILETS.

DESIGNATED AREAS FOR EQUIPMENT MAINTENANCE, REPAIR AND WASH DOWN (INCLUDING CONCRETE TRUCK WASH-DOWN) SHALL HAVE APPROPRIATE POLLUTANT CONTROLS INCLUDING, BUT NOT LIMITED TO, EARTHEN BERMS, ETC.

XV ALLOWABLE DISCHARGES:

NO PERSON SHALL INTRODUCE OR CAUSE TO BE INTRODUCED INTO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) OR WATERS WITHIN THE JURISDICTION OF THE CITY ANY DISCHARGE THAT IS NOT COMPOSED ENTIRELY OF STORMWATER. IT IS AN AFFIRMATIVE DEFENSE TO ANY ENFORCEMENT ACTION FOR VIOLATION OF THE AFOREMENTIONED THAT THE DISCHARGE WAS COMPOSED ENTIRELY OF ONE OR MORE OF THE FOLLOWING CATEGORIES OF DISCHARGES:

1. A DISCHARGE RESULTING FROM FIREFIGHTING;
2. AGRICULTURAL STORMWATER RUNOFF;
3. A DISCHARGE FROM LAWN WATERING, LANDSCAPE IRRIGATION, OR OTHER IRRIGATION WATER;
4. A DISCHARGE FROM UNCONTAMINATED PUMPED GROUNDWATER OR RISING GROUNDWATER;
5. UNCONTAMINATED GROUNDWATER INFILTRATION
6. UNCONTAMINATED DISCHARGE FROM A FOUNDATION DRAIN, CRAWL SPACE PUMP, FOOTING DRAIN OR SUMP PUMP;
7. A DISCHARGE FROM WATER USED IN STREET WASHING; PROVIDED, THAT THE WATER IS NOT CONTAMINATED WITH ANY HARMFUL CLEANING SUBSTANCE;

XVI OFFSITE VEHICLE TRACKING:

IN ADDITION TO THE STABILIZED CONSTRUCTION ENTRANCES, THE FOLLOWING MEASURES SHALL BE OBSERVED DURING CONSTRUCTION:

- __X__ HAUL ROADS SHALL BE DAMPENED FOR DUST CONTROL
- __X__ LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPAULIN
- __X__ EXCESS DIRT ON ROAD SHALL BE REMOVED DAILY
- __X__ STABILIZED CONSTRUCTION ENTRANCE
- ____ OTHER: ______

XVII ILLEGAL OR PROHIBITED DISCHARGES:

NO PERSON SHALL INTRODUCE OR CAUSE TO BE INTRODUCED INTO THE MS4 ANY DISCHARGE THAT CAUSES OR CONTRIBUTES TO CAUSING THE CITY TO VIOLATE A WATER QUALITY STANDARD, THE CITY'S NPDES PERMIT, OR ANY STATE-ISSUED DISCHARGE PERMIT FOR DISCHARGES FROM ITS MS4. NO PERSON SHALL RELEASE OR CAUSE, ALLOW, OR PERMIT TO BE INTRODUCED ANY OF THE FOLLOWING SUBSTANCES INTO THE MS4 OR THE WATERS WITHIN THE JURISDICTION OF THE CITY SUCH THAT THE SUBSTANCE MAY ENTER THE AIR OR GROUNDWATER:

1. ANY USED MOTOR OIL, ANTIFREEZE, OR ANY OTHER MOTOR VEHICLE FLUID;
2. ANY INDUSTRIAL WASTE;
3. ANY HAZARDOUS WASTE, INCLUDING HAZARDOUS HOUSEHOLD WASTE;
4. ANY DOMESTIC SEWAGE OR SEPTIC TANK WASTE, GREASE TRAP WASTE, OR GRIT TRAP WASTE;
5. ANY WASTEWATER FROM A COMMERCIAL CARWASH FACILITY; FROM ANY COMMERCIAL VEHICLE WASHING, CLEANING, OR MAINTENANCE AT ANY NEW OR USED AUTOMOBILE OR OTHER VEHICLE DEALERSHIP, RENTAL AGENCY, BODY SHOP, REPAIR SHOP, OR MAINTENANCE FACILITY.
6. ANY WASTEWATER FROM A COMMERCIAL MOBILE POWER WASHER OR FROM THE WASHING OR OTHER CLEANING OF BUILDING EXTERIOR WHERE THE WASTEWATER CONTAINS ANY HARMFUL CLEANING SUBSTANCE;
7. ANY WASTEWATER FROM COMMERCIAL FLOOR, RUG, OR CARPET CLEANING;
8. ANY WASTEWATER FROM THE WASHDOWN OR OTHER CLEANING OF PAVEMENT THAT CONTAINS ANY HARMFUL QUANTITY OF ANY CLEANING SUBSTANCE; OR ANY WASTEWATER FROM THE WASHDOWN OR OTHER CLEANING OF ANY PAVEMENT WHERE ANY SPILL, LEAK, OR OTHER RELEASE OF OIL, MOTOR FUEL, OR OTHER PETROLEUM OR HAZARDOUS SUBSTANCE HAS OCCURRED, UNLESS ALL HARMFUL QUANTITIES OF SUCH RELEASED MATERIAL HAVE BEEN PREVIOUSLY REMOVED;
9. ANY EFFLUENT FROM A COOLING TOWER, CONDENSER, COMPRESSOR, EMISSIONS SCRUBBER, EMISSIONS FILTER, OR THE BLOWDOWN FROM A BOILER;
10. ANY READY-MIXED CONCRETE, MORTAR, CERAMIC, OR ASPHALT BASE MATERIAL OR HYDROMULCH MATERIAL, OR FROM THE CLEANING OF COMMERCIAL VEHICLES OR EQUIPMENT CONTAINING, OR USED IN TRANSPORTING OR APPLYING, SUCH MATERIAL;
11. ANY FILTER BACKWASH FROM A SWIMMING POOL, FOUNTAIN, OR SPA;
12. ANY SWIMMING POOL OR SPA WATER;
13. ANY DISCHARGE FROM WATER LINE DISINFECTION BY SUPERCHLORINATION OR OTHER MEANS IF IT CONTAINS ANY HARMFUL QUANTITY OF CHLORINE OR ANY OTHER CHEMICAL USED IN LINE DISINFECTION;
14. ANY WATER FROM A WATER CURTAIN IN A SPRAY ROOM USED FOR PAINTING VEHICLES OR EQUIPMENT;
15. ANY CONTAMINATED RUNOFF FROM A VEHICLE WRECKING YARD;
16. ANY SUBSTANCE OR MATERIAL THAT WILL DAMAGE, BLOCK, OR CLOG THE MS4;
17. ANY RELEASE FROM A PETROLEUM STORAGE TANK (PST), OR ANY LEACHATE OR RUNOFF FROM SOIL CONTAMINATED BY A LEAKING PST, OR ANY DISCHARGE OF PUMPED, CONFINED, OR TREATED WASTEWATER FROM THE REMEDIATION OF ANY SUCH PST RELEASE, UNLESS THE DISCHARGE COMPLIES WITH ALL STATE AND FEDERAL STANDARDS AND REQUIREMENTS.

NO PERSON SHALL INTRODUCE OR CAUSE TO BE INTRODUCED INTO THE MS4 OR WATERS WITHIN THE JURISDICTION OF THE CITY ANY HARMFUL QUANTITY OF SEDIMENT, SILT, EARTH, SOIL, OR OTHER MATERIAL ASSOCIATED WITH CLEARING, GRADING, EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES, OR ASSOCIATED WITH LANDFILLING OR OTHER PLACEMENT OR DISPOSAL OF SOIL, ROCK, OR OTHER EARTH MATERIALS, IN EXCESS OF WHAT COULD BE RETAINED ON SITE OR CAPTURED BY EMPLOYING SEDIMENT AND EROSION CONTROL MEASURES TO THE MAXIMUM EXTENT PRACTICABLE UNDER PREVAILING CIRCUMSTANCES.

NO PERSON SHALL CONNECT A LINE CONVEYING SANITARY SEWAGE, DOMESTIC OR INDUSTRIAL, TO THE MS4, OR ALLOW SUCH A CONNECTION TO CONTINUE.

REGULATION OF PESTICIDES, HERBICIDES, AND FERTILIZERS:

1. ANY SALE, DISTRIBUTION, APPLICATION, LABELING, MANUFACTURE, TRANSPORTATION, STORAGE, OR DISPOSAL OF A PESTICIDE, HERBICIDE, OR FERTILIZER MUST COMPLY FULLY WITH ALL STATE AND FEDERAL STATUTES AND REGULATIONS INCLUDING, WITHOUT LIMITATION, THE FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT (FIFRA) AND ALL FEDERAL REGULATIONS PROMULGATED PURSUANT TO FIFRA; CHAPTERS 63, 75, AND 76 OF THE TEXAS AGRICULTURE CODE AND ALL STATE REGULATIONS PROMULGATED PURSUANT THERETO; AND ANY OTHER STATE OR FEDERAL REQUIREMENT.
2. NO PERSON SHALL USE OR CAUSE TO BE USED ANY PESTICIDE OR HERBICIDE CONTRARY TO ANY DIRECTIONS FOR USE ON ANY LABELING REQUIRED BY STATE OR FEDERAL STATUTE OR REGULATION.
3. NO PERSON SHALL DISPOSE OF, DISCARD, STORE, OR TRANSPORT A PESTICIDE, HERBICIDE, OR FERTILIZER, OR A PESTICIDE, HERBICIDE, OR FERTILIZER CONTAINER, IN A MANNER THAT THE PERSON KNOWS, OR REASONABLY SHOULD KNOW, IS LIKELY TO CAUSE, OR DOES CAUSE, A HARMFUL QUANTITY OF THE PESTICIDE, HERBICIDE, OR FERTILIZER TO ENTER THE MS4 OR WATERS OF THE UNITED STATES.

USED OIL REGULATION: NO PERSON SHALL:

1. DISCHARGE USED OIL INTO THE MS4 OR A SEWER, DRAINAGE SYSTEM, SEPTIC TANK, SURFACE WATER, GROUNDWATER, OR WATERCOURSE;
2. KNOWINGLY MIX OR COMMINGLE USED OIL WITH SOLID WASTE THAT IS TO BE DISPOSED OF IN A LANDFILL OR KNOWINGLY DIRECTLY DISPOSE OF USED OIL ON LAND OR IN ALL LANDFILL OR KNOWINGLY DISCHARGE USED OIL ONTO THE GROUND;
3. INTRODUCE USED OIL INTO THE ENVIRONMENT BY ANY METHOD, INCLUDING APPLICATION OF USED OIL TO A ROAD OR LAND FOR DUST SUPPRESSION, WEED ABATEMENT, OR OTHER SIMILAR USE.

A RETAIL DEALER WHO ANNUALLY SELLS DIRECTLY TO THE PUBLIC MORE THAN FIVE HUNDRED GALLONS OF OIL IN CONTAINERS FOR USE OFF-PREMISES SHALL POST IN A PROMINENT PLACE A SIGN PROVIDED BY THE STATE INFORMING THE PUBLIC THAT IMPROPER DISPOSAL OF USED OIL IS PROHIBITED BY LAW. THE SIGN SHALL PROMINENTLY DISPLAY THE TOLL-FREE TELEPHONE NUMBER OF THE STATE USED OIL INFORMATION CENTER. (ORD. 13477 § 1 (PART), 1998)

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STATE OF TEXAS
ROBERT A. GONZALES
69920
PROFESSIONAL ENGINEER
6/1/17

VILLA ALEGRE APARTMENTS
SITE IMPROVEMENTS
6412 EDGEMERE BOULEVARD
EL PASO TEXAS 79925

DATE: JUNE 2017

REVISED:

PHASE
100% CONSTRUCTION DOCUMENTS

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PROJECT No. 1705

STORMWATER POLLUTION PREVENTION PLAN SPECIFICATIONS

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