





GENERAL NOTES

- 1. GENERAL NOTES ARE SHOWN HERE TO SATISFY CITY REQUIREMENTS. NOTES SHOWN ON SHEETS MAY SUPERSEDE THESE NOTES.
2. CONTRACTOR IS RESPONSIBLE TO OBTAIN THE MOST CURRENT NOTES, STANDARDS, SPECIFICATIONS, AND GEOTECHNICAL REPORT AS APPROVED BY THE CITY PRIOR TO CONSTRUCTION.
3. ALL MATERIALS SHALL CONFORM TO CITY OF ROCKWALL, N.C.T.C.O.G. (3RD EDITION), AND TCEO STANDARDS.
4. CONTRACTOR SHALL USE "CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION" AND "N.C.T.C.O.G. 3rd EDITION"
5. ALL CONSTRUCTION SHALL ADHERE TO RECOMMENDATIONS IN THE GEOTECHNICAL REPORT ISSUED FOR THE SITE.

PROJECT GEOTECHNICAL ENGINEER:

TERRACON
8901 CARPENTER FREEWAY, SUITE 100
DALLAS, TEXAS 75247
PH: (214) 630-1010
CONTACT: SIVA PATHIVADA, P.E.
REPORT NO.: 94115026
DATE: MARCH 10, 2011

PAVING GENERAL NOTES

- 1. EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA.
2. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION AND ELEVATION OF EXISTING PAVING AND UTILITIES PRIOR TO THIS OPERATION.
3. SEE UTILITY PLANS FOR LOCATION OF WATER MAINS, SEWER MAINS, AND UTILITY CROSSINGS. PAVING CONTRACTOR SHALL MAKE FINAL ADJUSTMENTS TO SANITARY MANHOLES, VALVES, FIRE HYDRANTS, AND ALL UTILITIES, ETC UPON COMPLETION OF PAVING.
4. ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO APPLICABLE "STANDARD OF DESIGN AND CONSTRUCTION - CITY OF ROCKWALL" AND "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - N.C.T.C.O.G." 3RD EDITION.
5. THE PAVING CONTRACTOR SHALL BE REQUIRED TO CONSTRUCT STANDARD SIDEWALK RAMPS AT ALL STREET INTERSECTIONS.
6. ALL BACK FILL SHALL BE COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY AT -1 TO +3% OF OPTIMUM MOISTURE CONTENT. ALL FILL TO BE COMPACTED USING A SHEEP'S FOOT ROLLER.
7. CURB RADI AT STREET INTERSECTIONS SHALL BE 20 FEET MEASURED TO FACE OF CURB, UNLESS SHOWN OTHERWISE.
8. ALL PAVING DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
9. SEE CONSTRUCTION DETAIL SHEET FOR PAVEMENT SECTION AND CONSTRUCTION DETAILS.
10. CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT AND CURBS TO PROVIDE A SMOOTH CONNECTION AND INSURE POSITIVE DRAINAGE. ALL SAWCUTS OF EXISTING PAVEMENT SHALL BE FULL DEPTH OF PAVEMENT.
11. ALL CONSTRUCTION SHALL ADHERE TO RECOMMENDATIONS IN THE GEOTECHNICAL REPORT ISSUED FOR THIS SITE AND TO CITY STANDARDS.
12. CONTRACTOR SHALL TAKE SPECIAL CARE TO ASSURE PROPER DOWEL PLACEMENT AT EXPANSION JOINTS. IMPROPER PLACEMENT WILL NECESSITATE REMOVAL OF PAVEMENT.
13. SAWCUTTING SHALL BE DONE WITHIN EIGHT HOURS OF POUR OR AS SOON AS CONCRETE CAN SUPPORT WEIGHT AND CAN PROVIDE A NEAT CUT WHICH IS TRUE IN ALIGNMENT.
14. SUBGRADE SHALL BE MAINTAINED IN A MOST CONDITION UNTIL THE PAVEMENT IS PLACED.
15. THE CONTRACTOR SHALL PROVIDE AS-BUILT PLANS TO THE ENGINEER SO THAT THE ENGINEERING PLANS MAY BE REVISED TO REFLECT AS-BUILT CONDITIONS.
16. TRAFFIC BARRICADES WILL BE REQUIRED AT ALL PROPOSED DRIVE CONNECTIONS AND CONSTRUCTION IN PUBLIC RIGHT-OF-WAY. BARRICADES AND TRAFFIC CONTROL SHALL ADHERE TO THE APPLICABLE INSTALLATION SHOWN IN THE TEXAS MUTCD, AS CURRENTLY AMENDED.
17. MARK FIRE LANE TO CITY SPECIFICATIONS. "NO PARKING FIRE LANE" EVERY 25' WHITE 4" LETTER ON A 6" RED STRIPED BACKGROUND.
18. NO SAND UNDER PAVING.

UTILITY CONTACTS
GAS COMPANY: ATIMOS, DINAH WOOD, (972) 485-6277
ELECTRIC COMPANY: ONCOR, RUSSELL LEWIS, (972) 569-6310
COMMUNICATIONS COMPANY: AT&T, DUANE WELLS, 903-457-2092

STORM DRAIN NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO CITY STANDARDS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CURRENT COPY OF THE CITY STANDARD DETAILS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, CENTERLINE OF PIPE AND RIGHT-OF-WAY UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES AND PROVIDE FRENCH SAFETY PLANS SIGNED AND SEALED BY A LICENSED ENGINEER PRIOR TO START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL PROVIDE AS-BUILT PLANS TO THE ENGINEER SO THAT THE ENGINEERING PLANS MAY BE REVISED TO REFLECT AS-BUILT CONDITIONS.
5. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE AND MAINTAIN ALL NECESSARY WARNING AND SAFETY DEVICES (FLASHING LIGHTS, BARRICADES, SIGNS, ETC.) TO PROTECT PUBLIC SAFETY AND HEALTH UNTIL ALL WORK HAS BEEN COMPLETED AND ACCEPTED BY THE CITY.
6. THE LOCATION OF EXISTING UNDERGROUND FACILITIES INDICATED ON THE PLANS IS TAKEN FROM PUBLIC RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES PRIOR TO WORKING IN THE AREA TO CONFIRM THEIR EXACT LOCATION AND TO DETERMINE WHETHER ANY ADDITIONAL FACILITIES, OTHER THAN THOSE SHOWN ON THE PLAN, MAY BE PRESENT. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UNDERGROUND FACILITIES FOUND.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING.
8. CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND RIM ELEVATION PRIOR TO BEGINNING CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCY.
9. PUBLIC STORM SEWER PIPE 15 INCHES OR LARGER SHALL BE CLASS III RCP, OR APPROVED EQUAL.
10. PRIVATE STORM SEWER PIPE 15 INCHES OR LARGER SHALL BE HDPE, OR APPROVED EQUAL.
11. ALL STORM SEWER PIPE LESS THAN 15 INCHES SHALL BE PVC OR APPROVED EQUAL.
12. ALL PVC, RCP, HDPE, AND CMP INTERCONNECTIONS SHALL BE CONSTRUCTED WITH CONCRETE COLLARS.
13. UNDERGROUND DETENTION STORM SEWER SHALL BE CORRUGATED METAL, OR APPROVED EQUAL.
14. CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS, INCLUDING GRADES AND DIMENSIONS, BEFORE COMMENCEMENT OF CONSTRUCTION. ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
15. CONTRACTOR SHALL INSTALL PLUGS IN STORM DRAIN LINES OR OTHERWISE PREVENT MUD FROM ENTERING THE STORM DRAIN SYSTEM DURING CONSTRUCTION.
16. ALL WYES AND PIPE-TO-PIPE CONNECTIONS SHALL BE FULLY GROUTED.

GRADING GENERAL NOTES

- 1. ALL CLAY SOIL USED AS FILL SHOULD BE COMPACTED TO A DRY DENSITY OF AT LEAST 95 AND NOT EXCEEDING 100 PERCENT STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D-698. THE COMPACTED MOISTURE CONTENT OF THE CLAYS DURING PLACEMENT SHOULD BE +2% ABOVE OPTIMUM.
2. COMPACTION SHOULD BE ACCOMPLISHED BY PLACING THE FILL IN EIGHT-INCH THICK LOOSE LIFTS AND COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY. PARTICLE SIZES USED IN FILL SHALL BE LESS THAN FOUR INCHES DIAMETER. ALL FILL TO BE COMPACTED USING A SHEEP'S FOOT ROLLER.
3. GRADING CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OFF-SITE OF ALL EXCAVATED AND CLEARED MATERIAL WHICH SOILS LAB DECLARES UNSUITABLE FOR USE ON-SITE.
4. CONTRACTOR TO SLOPE THE ADJACENT GROUND AWAY FROM BUILDING PAD TO ACHIEVE POSITIVE SURFACE DRAINAGE.
5. INITIAL SITE GRADING SHALL BE COMPLETED TO A TOLERANCE OF PLUS OR MINUS ONE-TENTH OF ONE FOOT IN PAVED AREAS AND PLUS OR MINUS THREE-TENTHS OF ONE FOOT FOR BUILDING PADS. FINAL BUILDING PAD GRADING, TO BE DONE UPON COMPLETION OF PAVING AND UTILITY FACILITIES, SHALL BE PROVIDED TO A TOLERANCE OF PLUS OR MINUS ONE-TENTH OF ONE FOOT AT ALL FOUR CORNERS AND CENTER OF THE PAD, IN ALL SWALES AND LOT CORNERS.
6. CONTRACTOR SHALL REPLACE ANY EROSION CONTROL MATERIALS AT THE END OF EACH WORK DAY IF SAID MATERIALS WERE REMOVED DURING THE DAY FOR EASE OF CONSTRUCTION OR ACCESS.
7. IF ROCK IS ENCOUNTERED IN THE PAVING SUBGRADE, THE ROCK SHALL BE EXCAVATED TO A DEPTH OF SIX INCHES, REMOVED FROM THE PAVING, AND NON-ROCK MATERIAL SHALL BE REPLACED FOR THE PAVING SUBGRADE. THIS SHALL BE ACCOMPLISHED BY THE EXCAVATION CONTRACTOR, SUBSIDIARY TO THIS CONTRACT.
8. ALL VEGETATION AND TOPSOIL CONTAINING ORGANIC MATERIAL SHALL BE CLEARED AND GRUBBED AT THE BEGINNING OF EARTHWORK CONSTRUCTION.

GEOTECHNICAL REPORT INFORMATION
TERRACON CONSULTANTS, INC.
TERRACON PROJECT NO. 94115026
DATED: MARCH 10, 2011

WATER GENERAL NOTES

- 1. EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE DEVELOPER AND THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA.
2. THE CONTRACTOR IS TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. DEVELOPER'S SURVEYOR IS RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING TO COMPLETE THIS PROJECT.
4. TRENCHES WHICH LAY OUTSIDE EXISTING OR FUTURE PAVEMENTS SHALL BE BACK FILLED ABOVE THE TOP OF THE EMBEDEDMENT WITH TYPE "C" BACK FILL MATERIALS. WHEN TYPE "C" BACK FILL MATERIAL IS NOT SUITABLE AND AT THE DIRECTION OF THE ENGINEER TYPE "B" MATERIAL SHALL BE USED. ALL BACK FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% PROCTOR DENSITY BY MEANS OF TAMPING ONLY. TRENCHES THAT CROSS UNDER EXISTING OR FUTURE PAVEMENT SHALL BE BACK FILLED WITH 95% PROCTOR STANDARD DENSITY OF BETWEEN -2 AND +4% OF OPTIMUM MOISTURE CONTENT.
5. TOP OF WATER LINES SHALL BE A MINIMUM OF 3'-6" BELOW TOP OF CURB EXCEPT WHERE SHOWN OTHERWISE IN THESE PLANS.
6. FIRE HYDRANTS SHALL BE A MINIMUM OF 3' BEHIND THE FACE OF THE CURB UNLESS OTHERWISE DIRECTED BY THE CITY OF ROCKWALL. FIRE HYDRANTS AND VALVES AS SHOWN ON THESE PLANS ARE SYMBOLIC ONLY. FIRE HYDRANTS SHALL HAVE 5' CLEAR AROUND.
7. INSERT POLY PIG IN WATER MAIN WHERE DIRECTED. POLY PIG IS TO BE FURNISHED BY THE CONTRACTOR.
8. COPORATION STOPS SHALL BE TESTED FOR FULL FLOW WHEN THE SYSTEM IS PRESSURE TESTED.
9. CONTRACTOR SHALL COMPLY WITH TEXAS HOUSE BILL 1569, EFFECTIVE SEPTEMBER 1, 1989, TO MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES.
10. ALL NEW WATER MAINS SHALL BE FULLY PURGED. DO NOT TEST AGAINST EXISTING VALVES WHEN CONNECTING TO EXISTING MAINS.
11. ALL 8", 10", & 12" WATER MAINS SHALL BE PVC AWWA CLASS 200, C900, DR-14.
12. FITTINGS SHALL BE MEGALUG.
13. WHEN CONSTRUCTED, ALL WATER MAINS SHALL BE SWABBED WITH KNOP POLY PIG BORE SWAB OR APPROVED EQUAL.
14. ALL WATER MAINS SHALL BE PLUGGED WITH A CAST IRON PLUG (OR EQUAL) AT THE END OF EACH WORKDAY.
15. IF LIVESTOCK ARE PRESENT DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH DEVELOPER AND OWNER REPRESENTATIVES TO PROVIDE TEMPORARY FENCING DURING CONSTRUCTION TO PROTECT LIVESTOCK FROM INJURY.
16. WHEN EXISTING GRADES ARE LOWER THAN PROPOSED MAINS, THE FILL AREA OVER THE PIPE SHALL BE FILLED AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY TO THE PROPOSED FINISHED GRADE PRIOR TO INSTALLING ANY MAIN.
17. DEFLECT WATER MAINS AT JOINTS TO CLEAR CURB INLETS.
18. ALL FITTINGS SHALL BE DOMESTIC DUCTILE IRON.
19. ALL BENDS SHALL HAVE MEGA-LUG FITTINGS.
20. THE CONTRACTOR IS RESPONSIBLE FOR ALL BACTERIOLOGICAL AND PRESSURE TESTING PER TCEO STANDARDS AND SHALL BE COORDINATED WITH THE CITY CONSTRUCTION INSPECTOR.
21. UNDERGROUND FIRE LINE MUST BE INSTALLED BY A CONTRACTOR WHO IS LICENSED WITH THE STATE OF TEXAS FIRE MARSHAL'S OFFICE FOR SUCH WORK.
22. BLUE EMS DISK SHALL BE PLACED ON THE WATER LINE AT EVERY CHANGE IN DIRECTION, VALVE, AND SERVICE.

SANITARY SEWER GENERAL NOTES

- 1. EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE DEVELOPER AND THE ENGINEER NEITHER ASSUME NOR IMPLY ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA.
2. THE CONTRACTOR IS TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. DEVELOPER'S SURVEYOR IS RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING TO COMPLETE THIS PROJECT.
4. TRENCHES WHICH LAY OUTSIDE EXISTING OR FUTURE PAVEMENTS SHALL BE BACK FILLED ABOVE THE TOP OF THE EMBEDEDMENT WITH TYPE "C" BACK FILL MATERIALS. WHEN TYPE "C" BACK FILL MATERIAL IS NOT SUITABLE AND AT THE DIRECTION OF THE ENGINEER TYPE "B" MATERIAL SHALL BE USED. ALL BACK FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% PROCTOR DENSITY BY MEANS OF TAMPING ONLY. TRENCHES THAT CROSS UNDER EXISTING OR FUTURE PAVEMENT SHALL BE BACK FILLED WITH 95% PROCTOR STANDARD DENSITY OF BETWEEN -2% AND +4% OF OPTIMUM MOISTURE CONTENT.
5. TOP OF SANITARY SEWER PIPE SHALL BE A MINIMUM OF 4'-0" BELOW TOP OF CURB EXCEPT WHERE SHOWN OTHERWISE IN THESE PLANS.
6. ALL FLEXIBLE SANITARY SEWER MAINS SHALL BE TESTED WITH STANDARD 5% DEFLECTION MANDREL.
7. AIR TESTING WILL BE TESTED BACK TO NEAREST MANHOLE ON EXISTING MAIN.
8. RIM ELEVATIONS OF THE PROPOSED SANITARY SEWER MANHOLES IN PROPOSED PAVING ARE SHOWN AS FINAL FINISHED GRADES. THEY SHALL BE CONSTRUCTED TO 15" BELOW FINAL FINISHED GRADE BY UTILITY CONTRACTOR AND ADJUSTED BY PAVING CONTRACTOR.
9. ALL MANHOLES NOT IN CONCRETE PAVEMENT SHALL HAVE CONCRETE COLLARS.
10. ALL MANHOLES SHALL HAVE WATERTIGHT INSERTS.
11. CONTRACTOR SHALL COMPLY WITH TEXAS HOUSE BILL 1569, EFFECTIVE SEPTEMBER 1, 1989, TO MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES.
12. ALL SANITARY SEWER MAINS SHALL BE CAPPED WITH AN APPROPRIATE CAP AT THE END OF EACH WORKDAY.
13. IF LIVESTOCK ARE PRESENT DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH DEVELOPER AND OWNER REPRESENTATIVES TO PROVIDE TEMPORARY FENCING DURING CONSTRUCTION TO PROTECT LIVESTOCK FROM INJURY.
14. WHEN EXISTING GRADES ARE LOWER THAN PROPOSED MAINS, THE FILL AREA OVER THE PIPE SHALL BE FILLED AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY TO THE PROPOSED FINISHED GRADE PRIOR TO INSTALLING ANY MAIN.
15. ALL MANHOLES TO BE RAVEN LINED.
16. MANHOLES WITH PAVING LIMITS OR CREEK AREAS SHALL HAVE A PAMTIGHT 24" MANHOLE COVER AND FRAME. ALL OTHER MANHOLES SHALL HAVE A PAMREX 24" MANHOLE COVER AND FRAME.
17. GREEN EMS DISK SHALL BE PLACED ON THE SANITARY SEWER AT EVERY CHANGE IN DIRECTION, MANHOLE, CLEANOUT, AND SERVICE.

EROSION CONTROL GENERAL NOTES

- 1. EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLETS, OR IN CHANNELS, DRAINAGE WAYS OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGE WAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREDGED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.
2. 75%-85% OF ALL DISTURBED AREA SHALL HAVE 1' HEIGHT GRASS COVERAGE PRIOR TO SITE/CIVIL ACCEPTANCE.

"RECORD DRAWING"
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.
DATE: 03/05/2013 BY: [Signature]

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

CAUTION!!
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

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

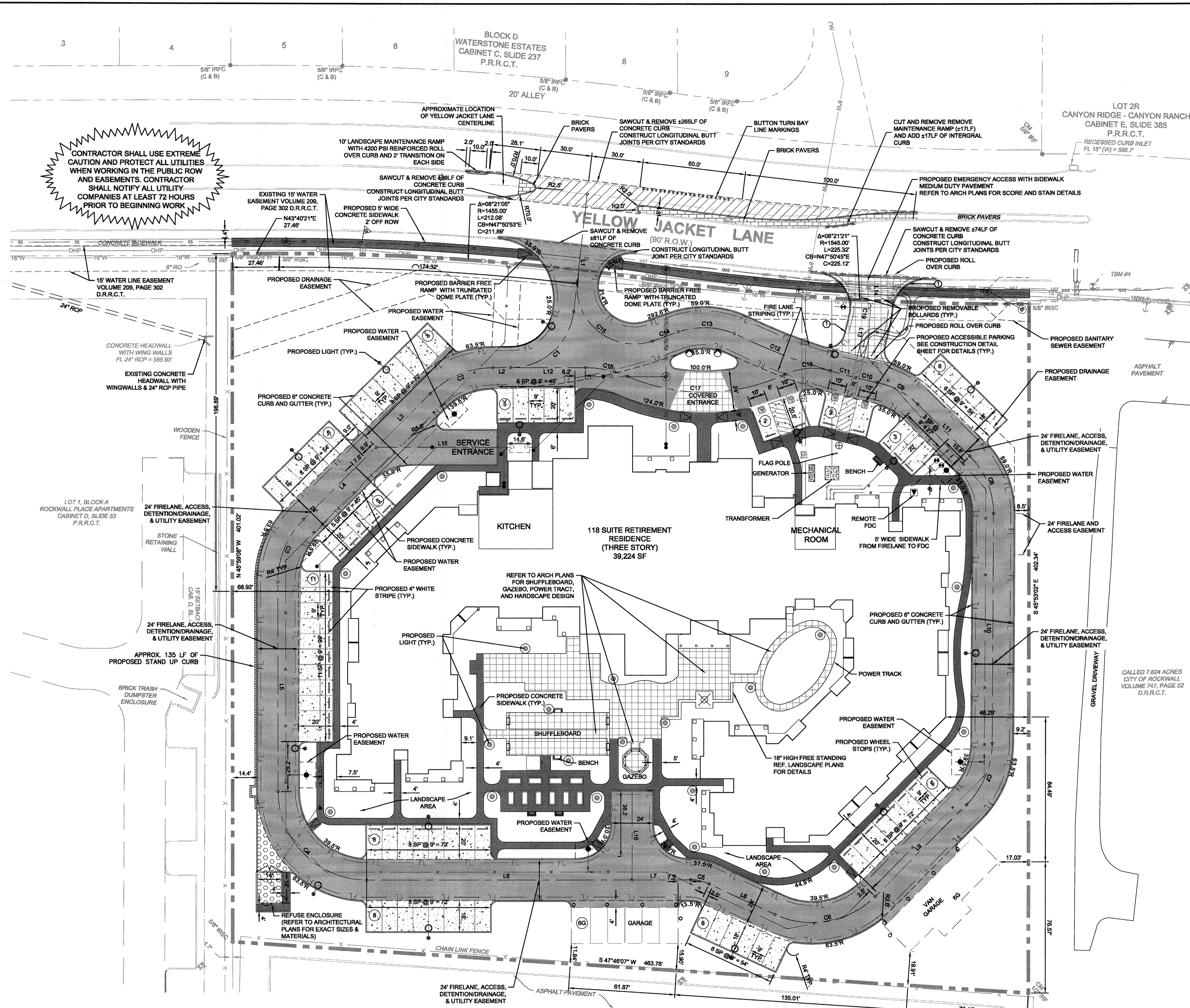
BENCHMARKS:
#1: 4" Aluminum disk in concrete stamped "City of Rockwall Monument R005" located in the center median of Summit Ridge Drive west of F. M. 740. Elev. = 576.708'
#2: 2" Brass disk in concrete stamped "City of Rockwall Monument R013" located in front of 1208 Lakeshore Drive southwest of the intersection of Lakeshore Drive and Summit Ridge. Elev. = 450.606'
#3: Square set with "X" on the southeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 100 feet northeast of Kyle Drive. Elev. = 522.11'
#4: Square set with "X" on the northeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 10 feet southwest of westerly entrance into city park and baseball fields. Elev. = 572.50'

Project information block including: KHA PROJECT 064444700, DATE 03/05/2013, SCALE AS SHOWN, DESIGNED BY CRS, DRAWN BY CRS, CHECKED BY BLM, TEXAS, ROCKWALL RETIREMENT RESIDENCE PREPARED FOR THE HAWTHORN RETIREMENT GROUP, SHEET NUMBER C1.2, and Kimley-Horn and Associates, Inc. logo and contact information.

Vertical text on the left margin: K:\DAL\_Civil\064444700-Rockwall Retirement\Godwin\PlanSheets\C-002\_GENERAL NOTES.dwg, K:\DAL\_Civil\064444700-Rockwall Retirement\Godwin\PlanSheets\C-002\_GENERAL NOTES.dwg, This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



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**CONTRACTOR SHALL USE EXTREME CAUTION AND PROTECT ALL UTILITIES WHEN WORKING IN THE PUBLIC ROW AND EASEMENTS. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.**

**LEGEND**

PROPERTY LINE	[Symbol]
FIRE LANE	[Symbol]
LIGHT DUTY PAVEMENT PER SECTION 4.7.3 CONCRETE PAVEMENT IN THE TERRACON REPORT NO. 94115026 GEOTECHNICAL REPORT DATED MARCH 10, 2011	[Symbol]
MEDIUM DUTY PAVEMENT PER SECTION 4.7.3 CONCRETE PAVEMENT IN THE TERRACON REPORT NO. 94115026 GEOTECHNICAL REPORT DATED MARCH 10, 2011	[Symbol]
DUMPSTER AREA PAVEMENT PER SECTION 4.7.3 CONCRETE PAVEMENT IN THE TERRACON REPORT NO. 94115026 GEOTECHNICAL REPORT DATED MARCH 10, 2011	[Symbol]
4" REINFORCED CONCRETE SIDEWALK REFER TO CONSTRUCTION DETAILS	[Symbol]
POOL, CABANA, POWER TRACT, AND HARDSCAPE REFER TO ARCH PLANS FOR DESIGN	[Symbol]
MEDIAN CUT PAVEMENT REFER TO CONSTRUCTION DETAILS	[Symbol]
BRICK PAVERS WITH FULL DEPTH CONCRETE UNDERNEATH TO MATCH EXISTING REFER TO CONSTRUCTION DETAILS	[Symbol]
PROPOSED EASEMENT	[Symbol]
PROPOSED SANITARY SEWER LINE	[Symbol]
PROPOSED WATER LINE	[Symbol]
PROPOSED STORM SEWER LINE	[Symbol]
PROPOSED SANITARY SEWER MANHOLE	[Symbol]
PROPOSED CLEAN-OUT	[Symbol]
PROPOSED FIRE HYDRANT (FH)	[Symbol]
PROPOSED WATER METER	[Symbol]
EXISTING WATER LINE	[Symbol]
EXISTING SANITARY SEWER LINE	[Symbol]
EXISTING GAS LINE	[Symbol]
EXISTING UNDERGROUND TELECOMM.	[Symbol]
EXISTING OVERHEAD POWER	[Symbol]
PARKING COUNT	[Symbol]
BARRIER FREE RAMP	[Symbol]
LANDSCAPE INLET	[Symbol]
CURB INLET	[Symbol]
PROPOSED 6" FLUSH CURB FOR FIRELANE PAINT	[Symbol]

**CURVE TABLE**

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	37.00'	53.86'	S21°18'47"W	49.23'	83°24'06"	32.97'
C2	51.50'	40.45'	S21°30'52"W	38.42'	45°00'00"	21.33'
C3	51.50'	40.45'	S23°29'06"E	38.42'	45°00'00"	21.33'
C4	51.50'	80.90'	N89°00'52"E	72.83'	90°00'00"	51.50'
C5	25.50'	11.10'	N56°29'15"E	11.01'	24°56'44"	5.84'
C6	51.50'	63.03'	N33°53'51"E	59.17'	70°07'29"	38.14'
C7	51.50'	39.93'	N23°22'27"W	38.93'	44°29'06"	21.03'
C8	47.00'	37.24'	N68°17'04"W	36.28'	49°24'08"	19.66'
C9	47.00'	27.41'	S72°18'34"W	27.02'	33°24'36"	14.10'
C10	343.61'	12.62'	S56°45'00"W	12.62'	2°06'18"	6.31'
C11	343.61'	15.29'	S59°04'39"W	15.29'	2°33'00"	7.65'
C12	343.61'	59.84'	S65°20'30"W	59.77'	9°56'43"	30.00'
C13	47.00'	33.25'	S45°53'28"W	32.56'	40°32'15"	17.36'
C14	304.60'	16.19'	S24°05'07"W	16.19'	3°02'41"	8.10'
C15	33.35'	66.14'	S82°28'50"W	55.82'	113°36'21"	50.98'
C16	62.00'	25.25'	N55°40'50"E	25.07'	23°19'57"	12.80'
C17	112.00'	94.49'	N43°10'40"E	91.71'	48°20'17"	50.26'
C18	37.00'	26.70'	N39°40'50"E	26.12'	41°20'38"	13.96'
C19	52.00'	9.95'	S37°41'02"E	9.93'	10°57'37"	4.99'

**LINE TABLE**

LINE	LENGTH	BEARING
L1	69.17	S39°23'16"E
L2	10.28	S44°00'52"W
L3	44.43	S0°59'08"E
L4	59.75	S0°59'08"E
L5	122.16	S45°59'08"E
L6	154.47	N44°00'52"E
L7	34.04	N44°00'52"E
L8	42.24	N68°57'35"E
L9	75.33	N11°09'54"W
L10	134.06	N45°35'00"W
L11	42.87	S89°00'52"W
L12	43.61	N44°00'52"E
L13	33.59	S32°12'13"E
L14	16.75	S43°09'51"E
L15	70.08	S44°00'52"W
L16	51.82	S45°55'13"E

**NOTES**

- ALL DIMENSIONS ARE TO FACE OF CURB AND OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL CONSTRUCTION DRAWINGS FOR DETAILED FLOOR DIMENSIONS.
- BUILDING, MECHANICAL, EQUIPMENT AND SIGNS ARE SHOWN HEREON FOR REFERENCE ONLY. REFER TO CONSTRUCTION PLANS OF THOSE ITEMS FOR LOCATIONS AND DIMENSIONS.
- SITE LIGHTING TO BE PLACED 2' MINIMUM OFF BACK OF CURB.
- ALL RADII TO BE 3' MINIMUM UNLESS OTHERWISE NOTED.
- REFER TO IRRIGATION PLANS FOR IRRIGATION CONDUIT LAYOUT AND SLEEPING PLANS.
- REFER TO MEP PLANS FOR SITE LIGHTING CONDUIT LAYOUT AND SLEEPING PLANS.
- REFERENCE LANDSCAPE ARCHITECT PLANS FOR LIMITS OF LANDSCAPE AND HARDSCAPE ITEMS SUCH AS PLANTING AREAS, TREES, SIDEWALKS, FENCE, PAVERS, SITE LIGHTING, AND ETC.
- ALL SAWCUTS ARE 1.5' FROM THE FACE OF CURB OF EXISTING CURB.
- CONFIRM ALL UTILITIES AND DRAINAGE ARE IN PLACE PRIOR TO PAVEMENT CONSTRUCTION.
- TRANSITION FROM INTEGRAL CURB TO ROLLOVER CURB 5' ON EACH SIDE OF CONNECTION.
- TRANSITION FROM INTEGRAL CURB TO STANDUP CURB WITHIN 5' ON EACH SIDE OF CONNECTION.

**BENCHMARKS:**

- 4" Aluminum disk in concrete stamped "City of Rockwall Monument R005" located in front of 1208 Lakeshore Drive west of F. M. 740. Elev. = 578.705'
- 2" Brass disk in concrete stamped "City of Rockwall Monument R013" located in front of 1208 Lakeshore Drive southwest of the intersection of Lakeshore Drive and Summit Ridge. Elev. = 450.606'
- Square set with "X" on the southeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 100 feet northeast of Kyle Drive. Elev. = 522.11'
- Square set with "X" on the northeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 10 feet southwest of westerly entrance into city park and baseball fields. Elev. = 572.50'

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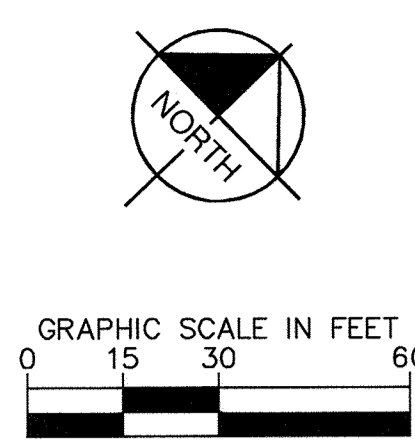
**STOP! CALL BEFORE YOU DIG**

DIG TESS  
1-800-DIG-TESS  
(at least 72 hours prior to digging)

**"RECORD DRAWING"**

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DATE: 03/05/2013 BY: *Bradley J. Moss*



**Kimley-Horn and Associates, Inc.**

12700 PARK CENTRAL DRIVE, SUITE 1800, DALLAS, TX 75251  
PHONE: 972-770-1300 FAX: 972-239-3820  
WWW.KIMLEY-HORN.COM  
TEXAS REGISTERED ENGINEERING FIRM F-928

**ROCKWALL RETIREMENT RESIDENCE PREPARED FOR THE HAWTHORN RETIREMENT GROUP**

**PAVING & DIMENSION CONTROL PLAN**

DATE: 03/05/2013  
SCALE: AS SHOWN  
DESIGNED BY: CRS  
DRAWN BY: CRS  
CHECKED BY: BLM

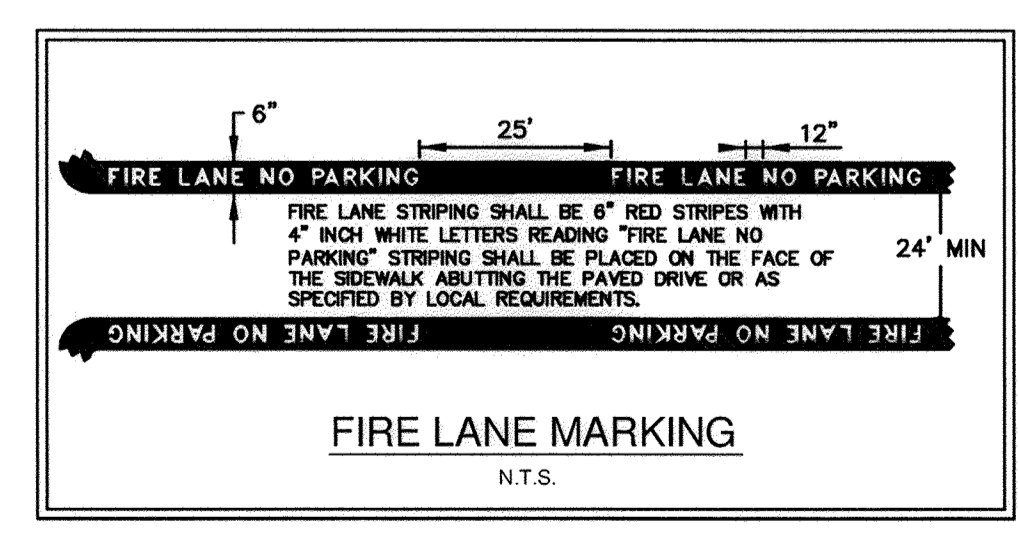
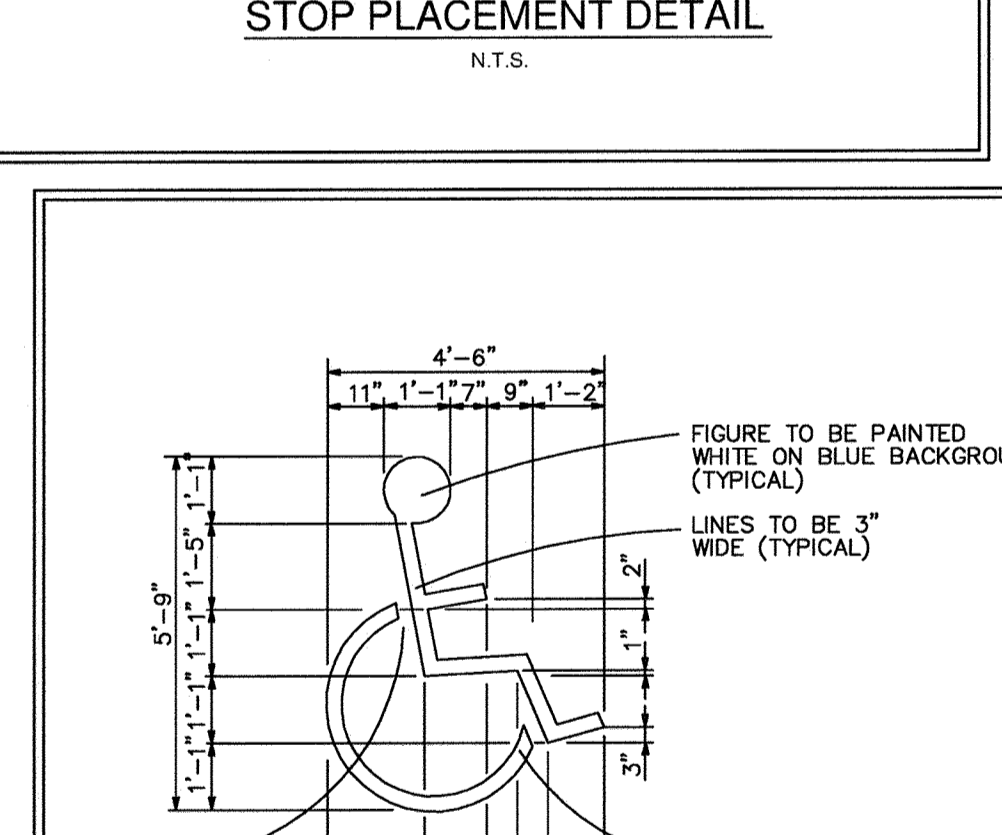
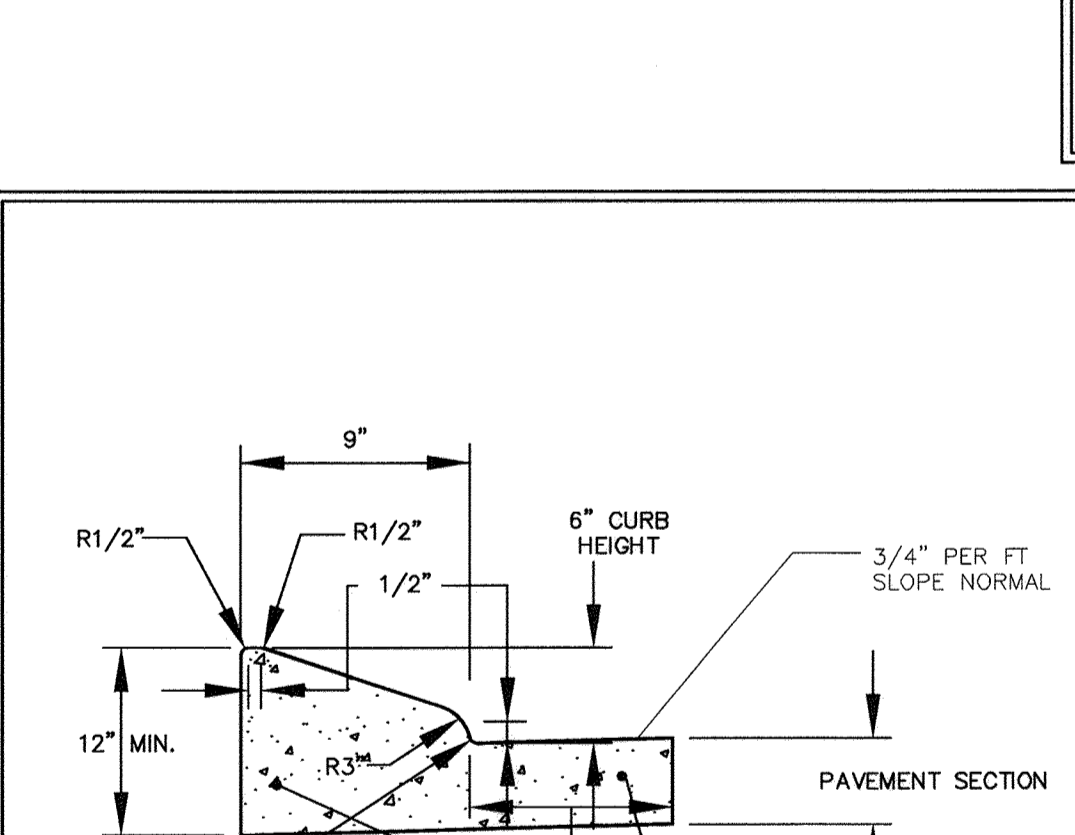
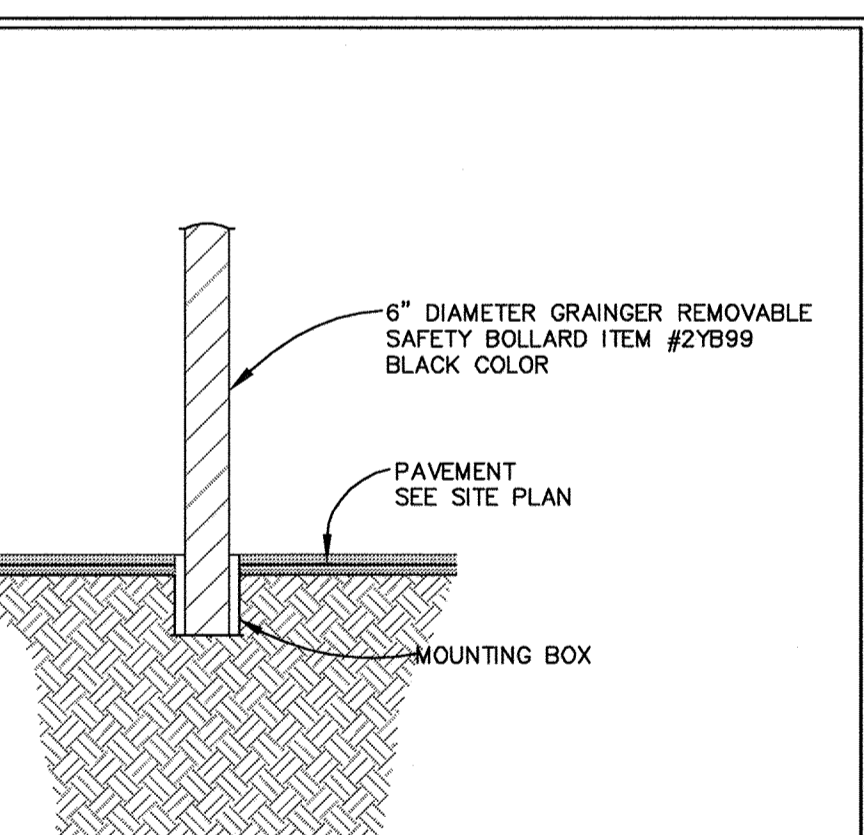
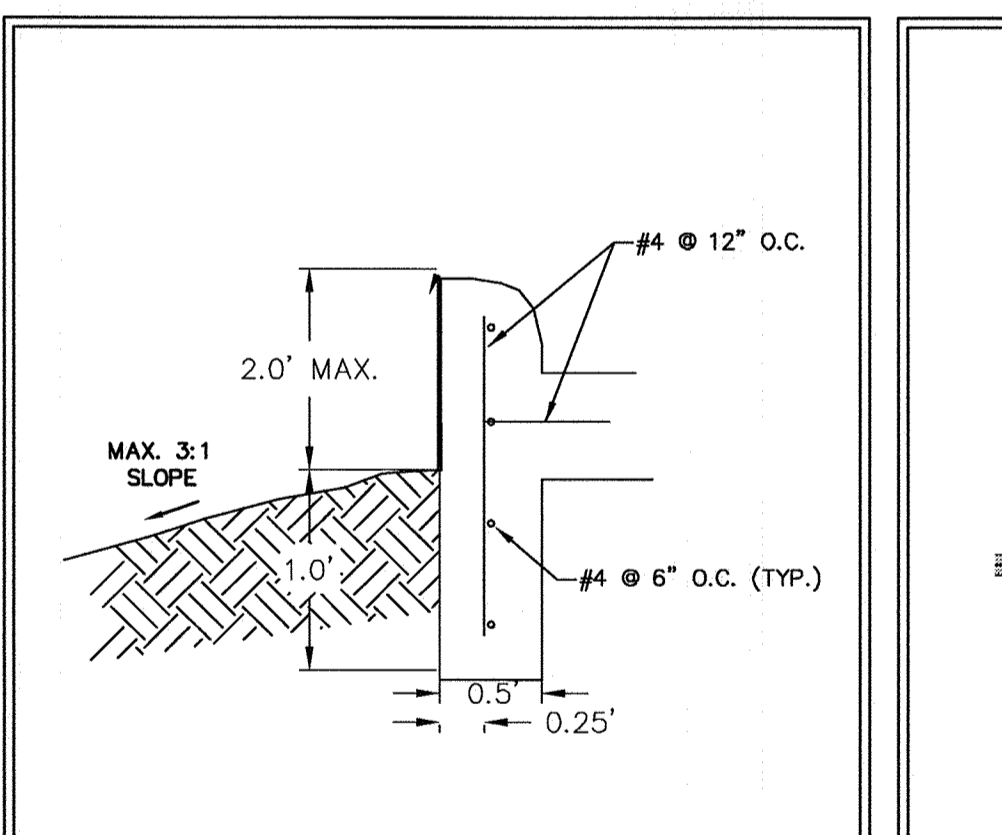
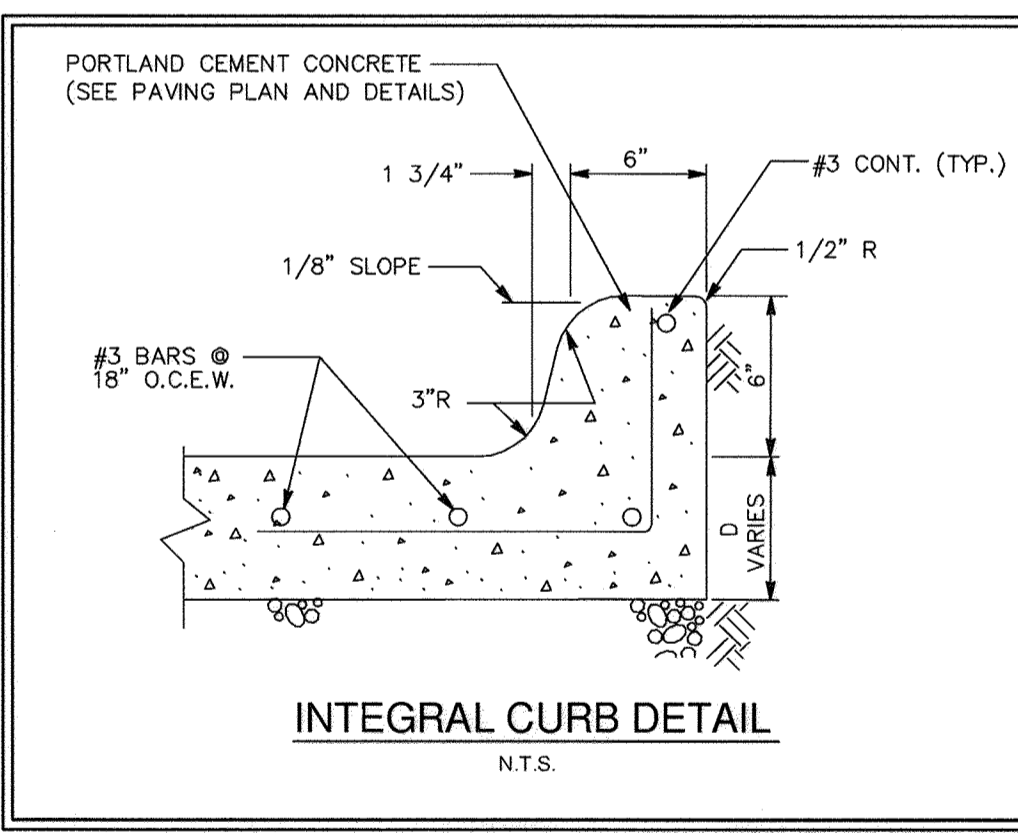
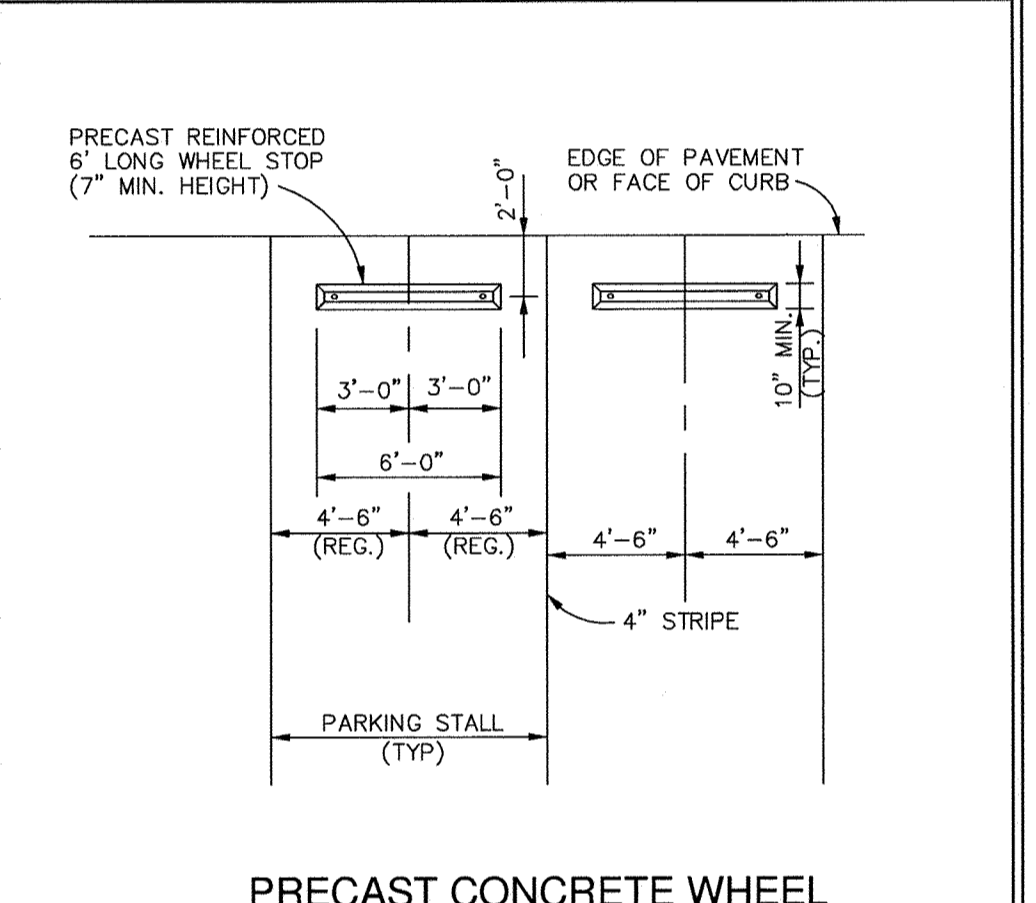
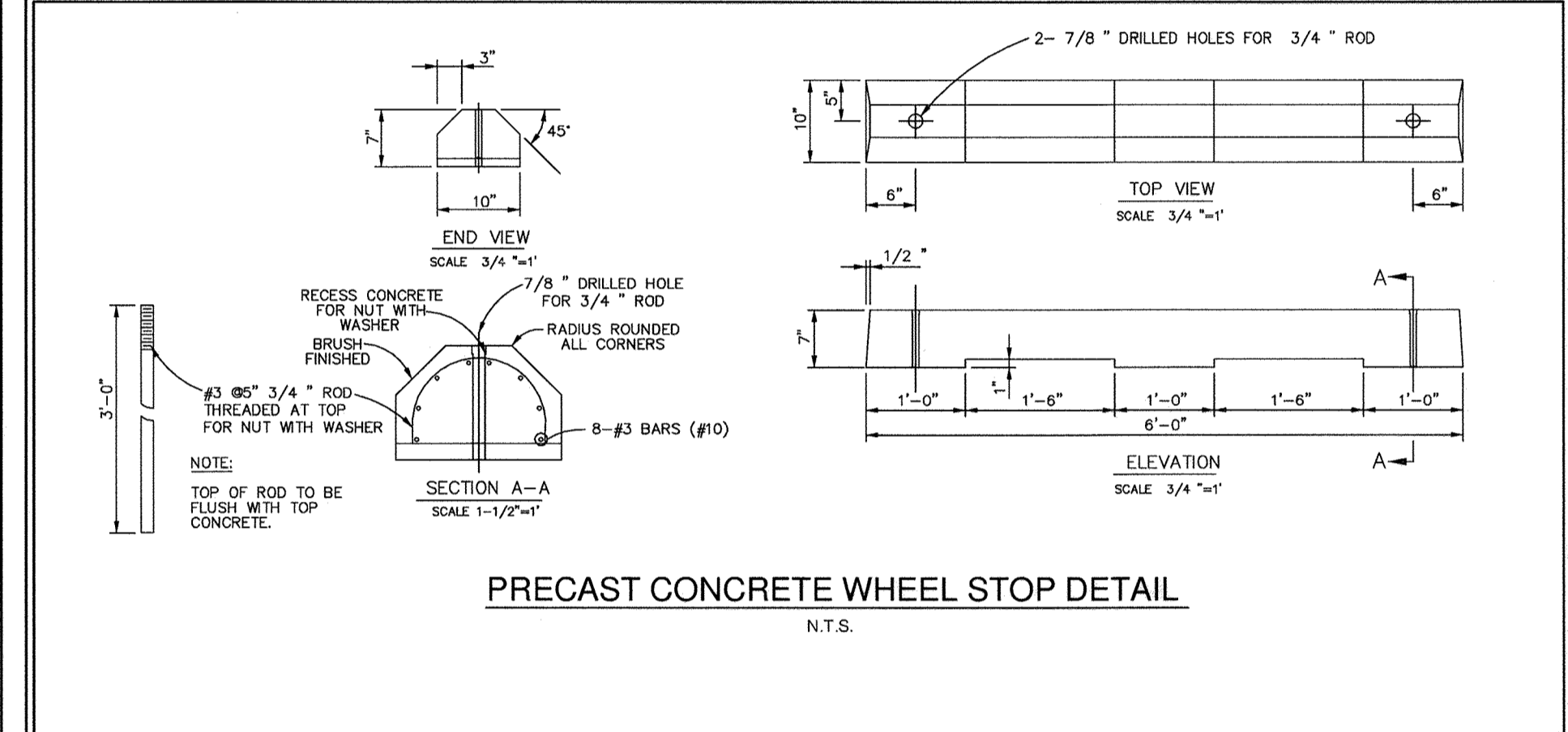
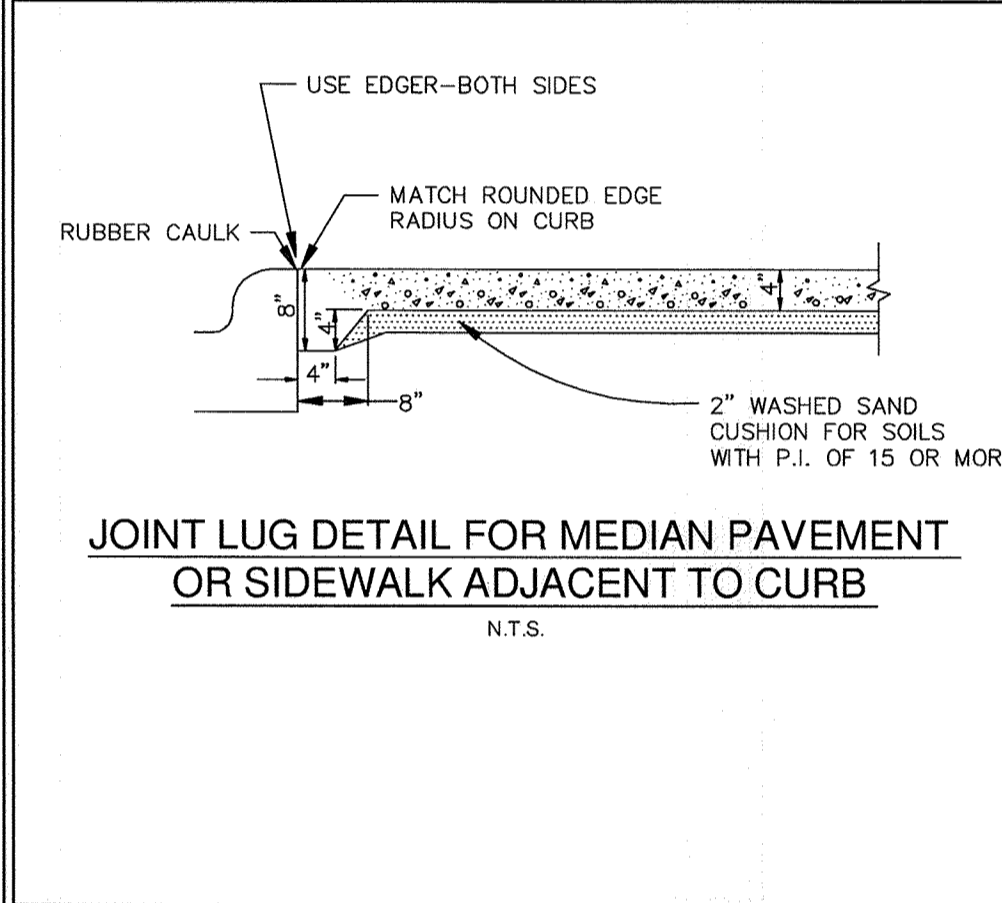
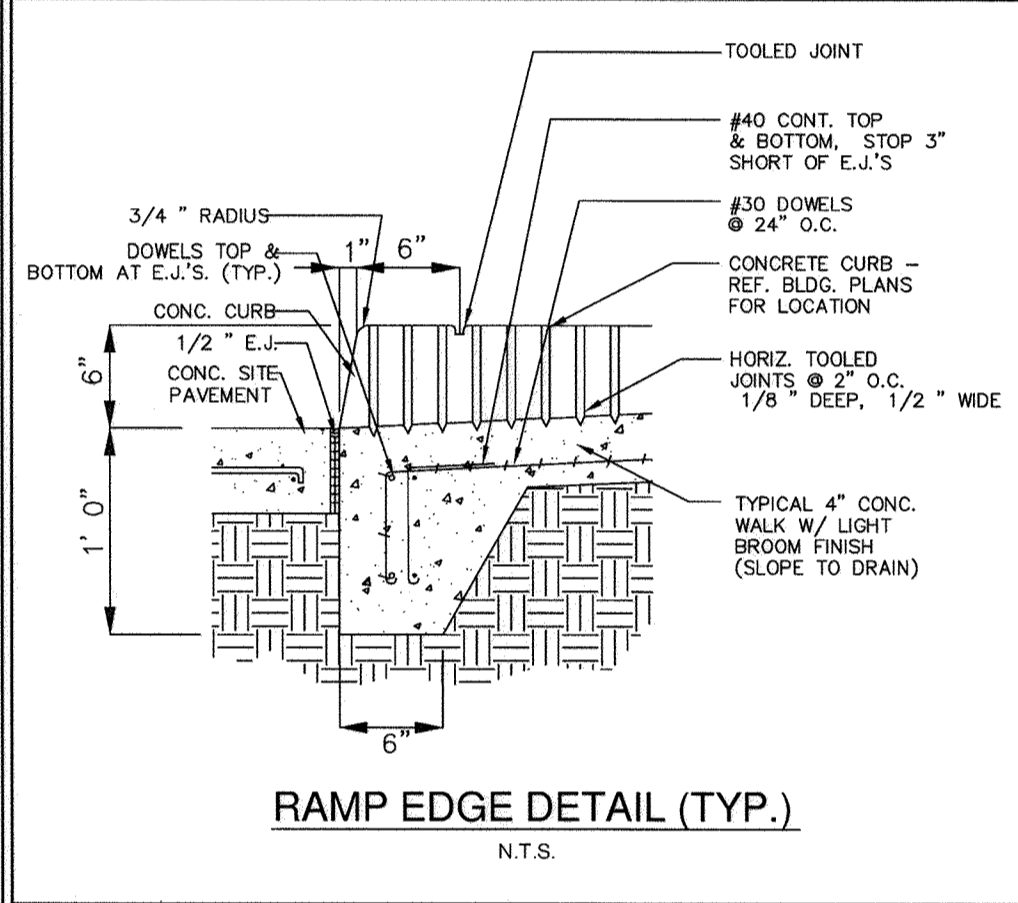
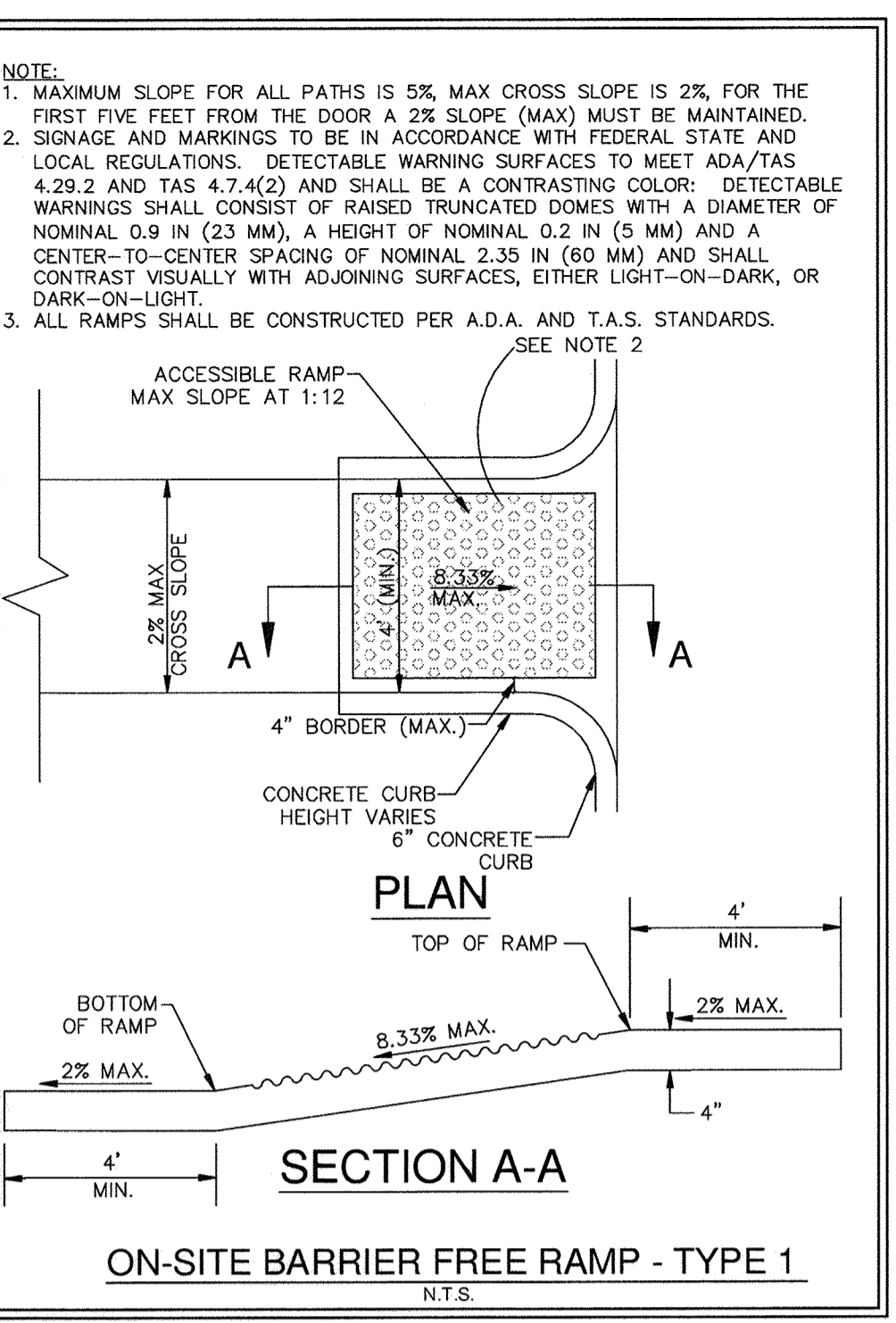
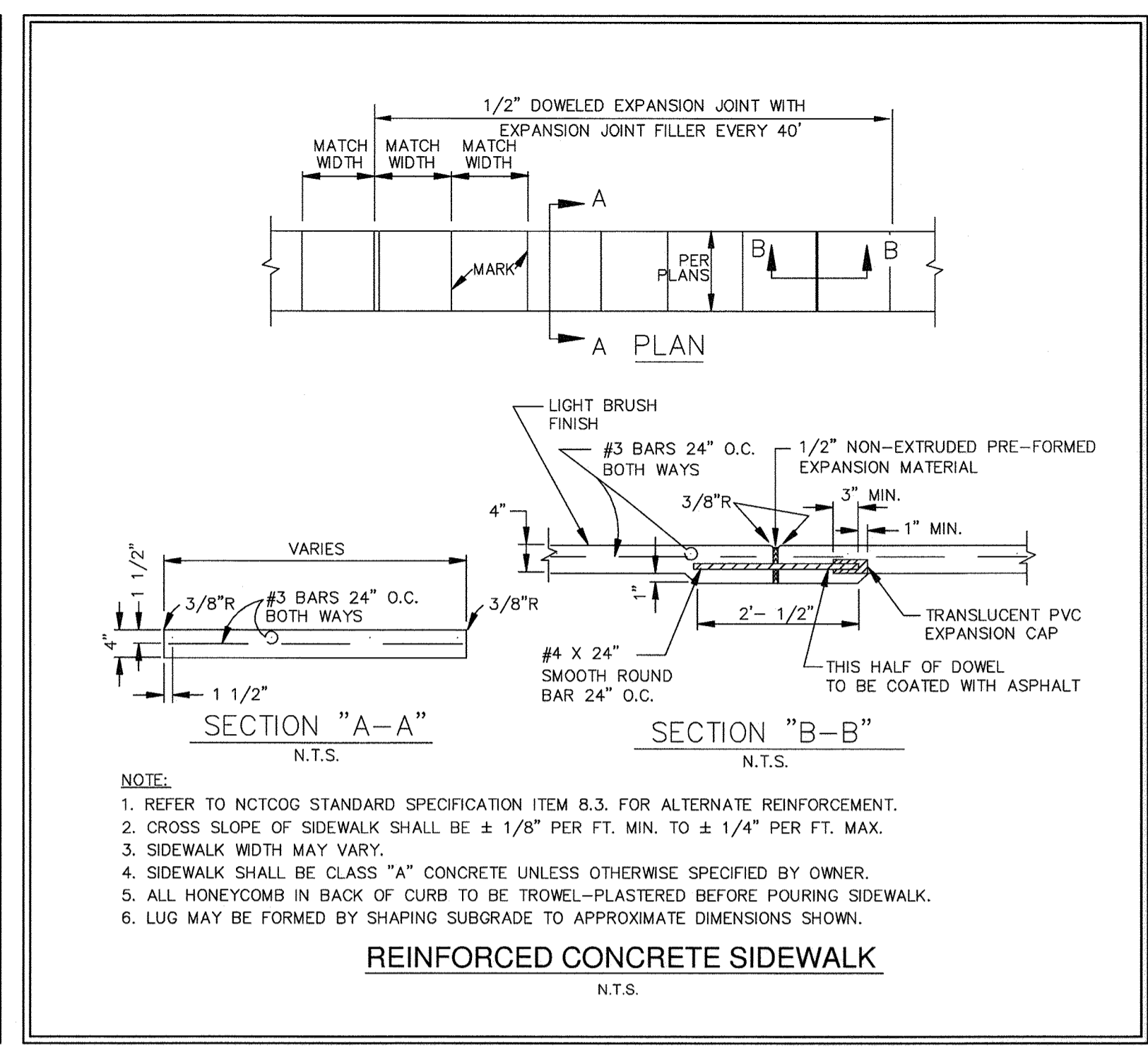
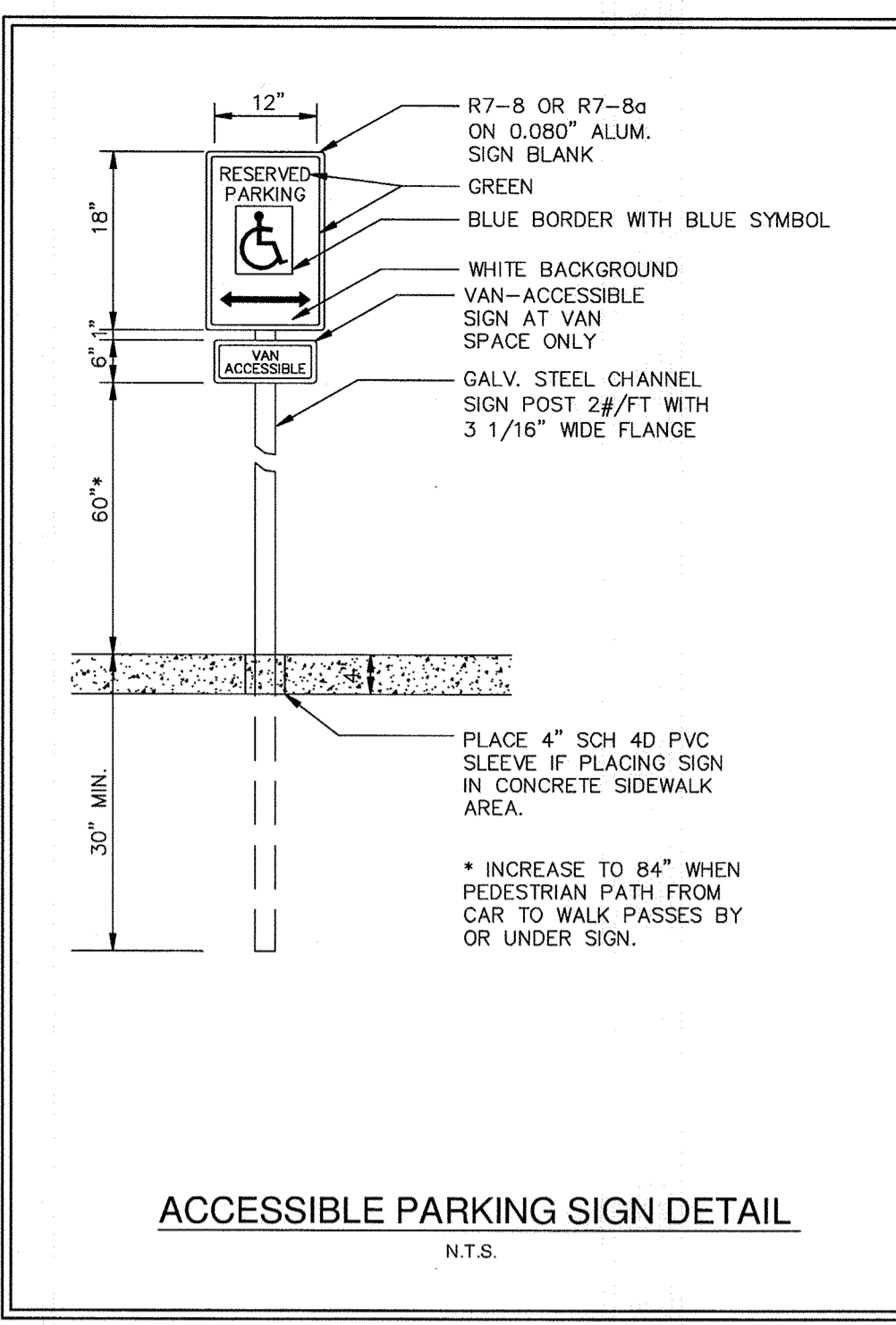
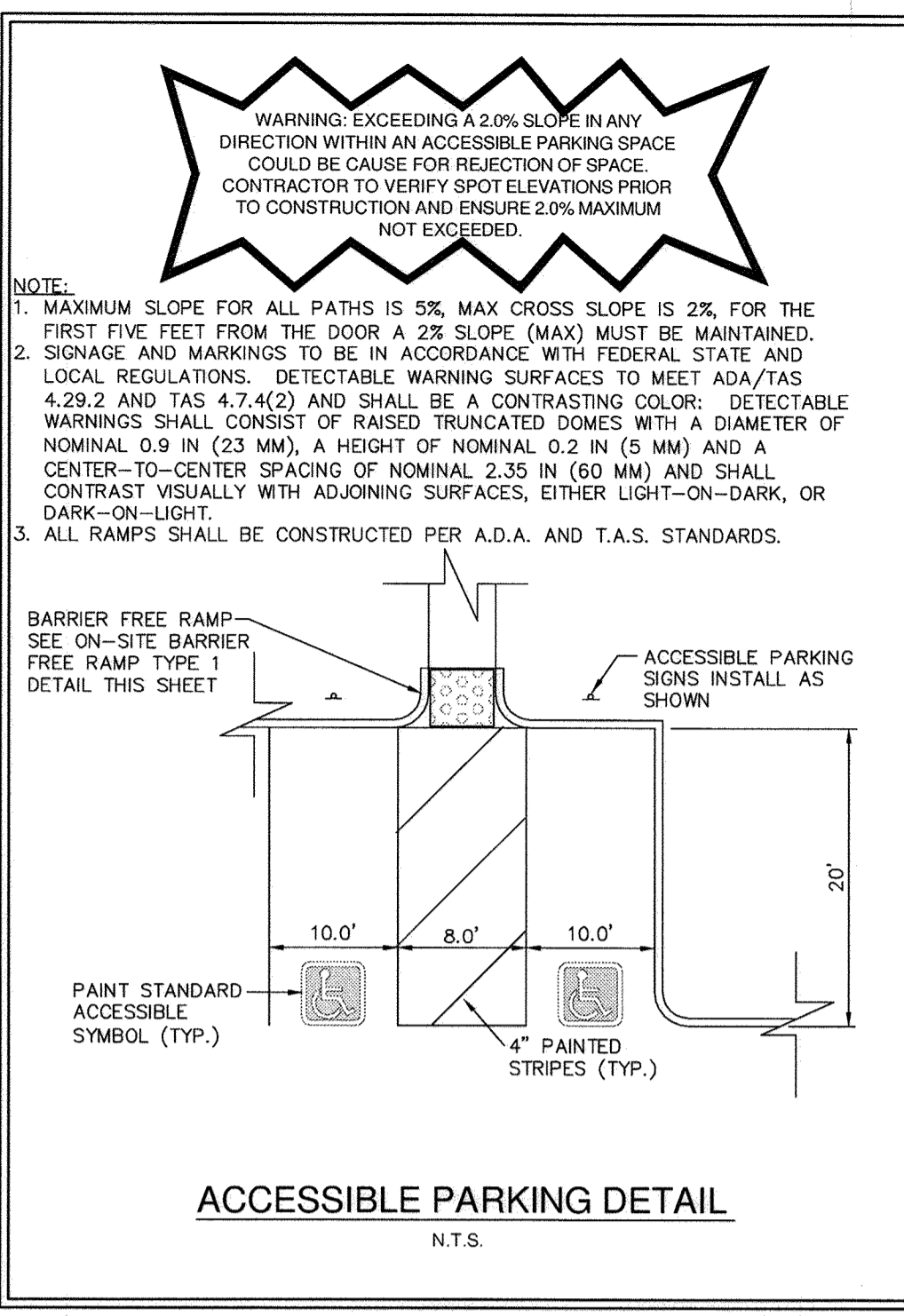
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SHEET NUMBER **C3.2**



File: \\K:\DAL\con\06444700-Rev002-Retirement\Con\Arch\Construction\DETAILS\0-500 CONSTRUCTION DETAILS (SHEET 1 OF 2) 3/6/2013 8:08am  
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 DATE: 03/05/2013 BY: *Barry J. Moss*

KHA PROJECT: 06444700  
 DATE: 03/05/2013  
 SCALE: AS SHOWN  
 DESIGNED BY: CRIS  
 DRAWN BY: CRIS  
 CHECKED BY: BIM

KIMLEY-HORN and Associates, Inc.  
 12700 PARK CENTRAL DRIVE, SUITE 1800, DALLAS, TX 75251  
 PHONE: 972-770-1300 FAX: 972-239-3820  
 WWW.KIMLEY-HORN.COM  
 TEXAS REGISTERED ENGINEERING FIRM F-928

STATE OF TEXAS  
 BRADLEY J. MOSS  
 06631  
 LICENSED PROFESSIONAL ENGINEER

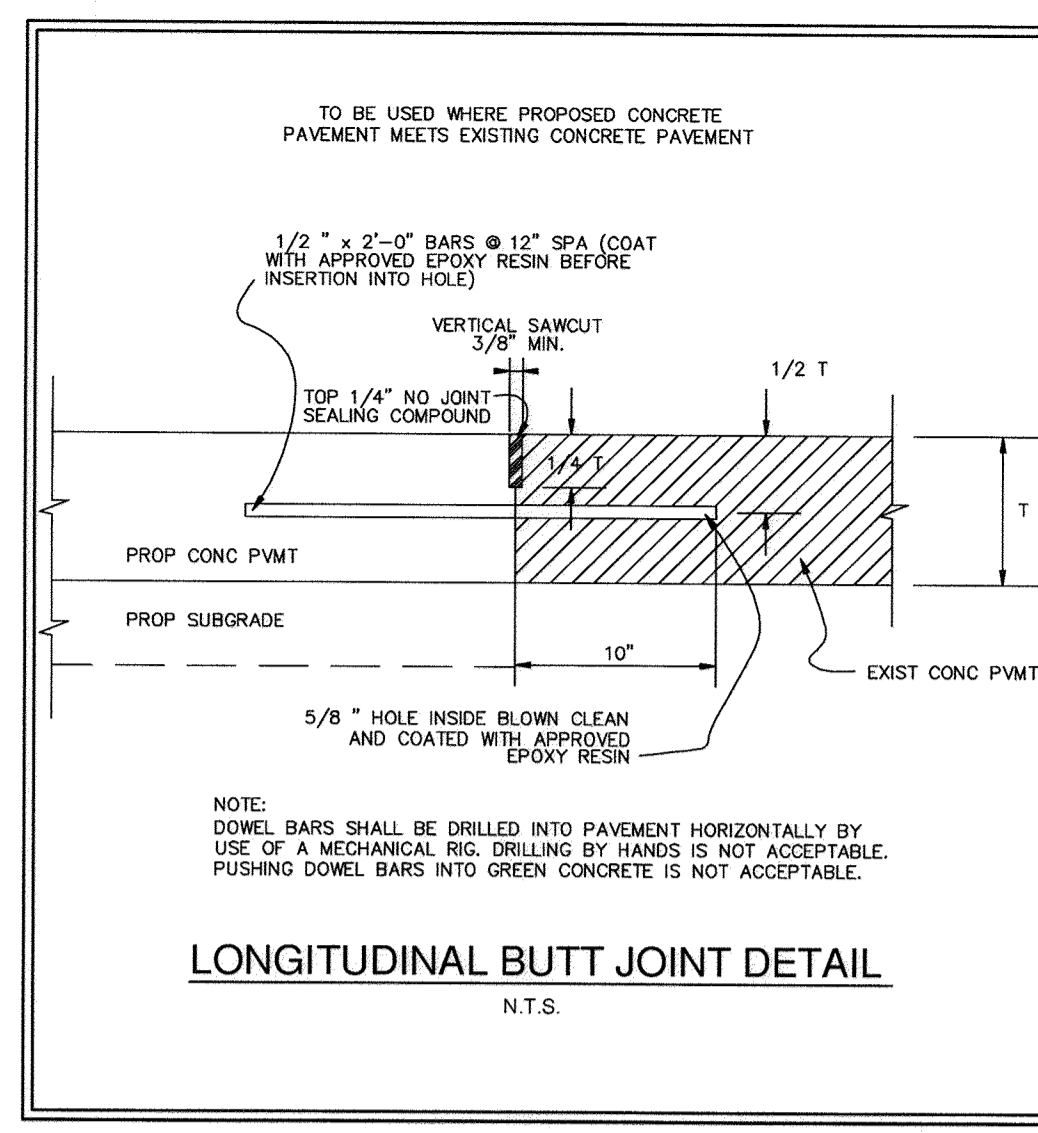
**CONSTRUCTION DETAILS (SHEET 1 OF 2)**

ROCKWALL RETIREMENT RESIDENCE PREPARED FOR THE HAWTHORN RETIREMENT GROUP

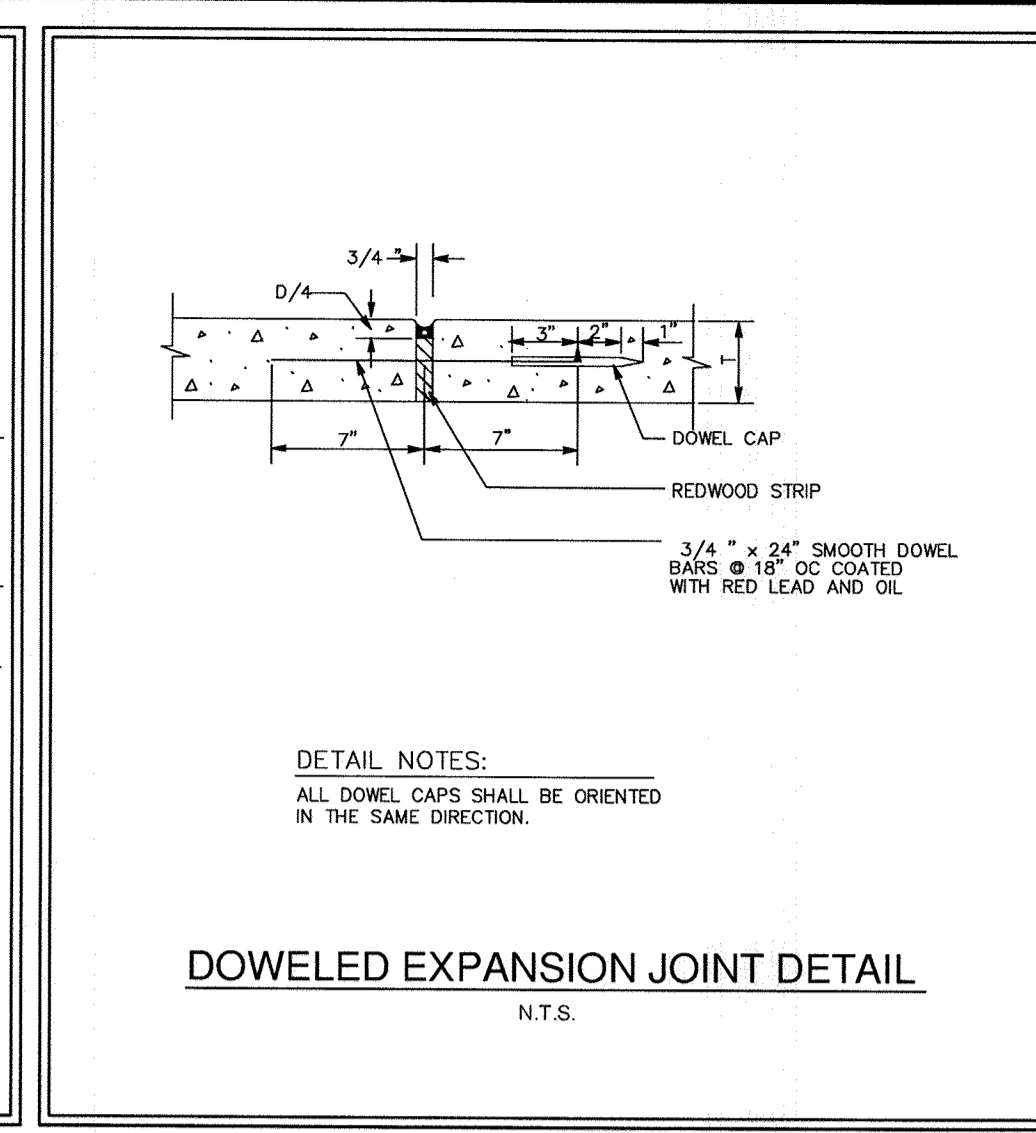
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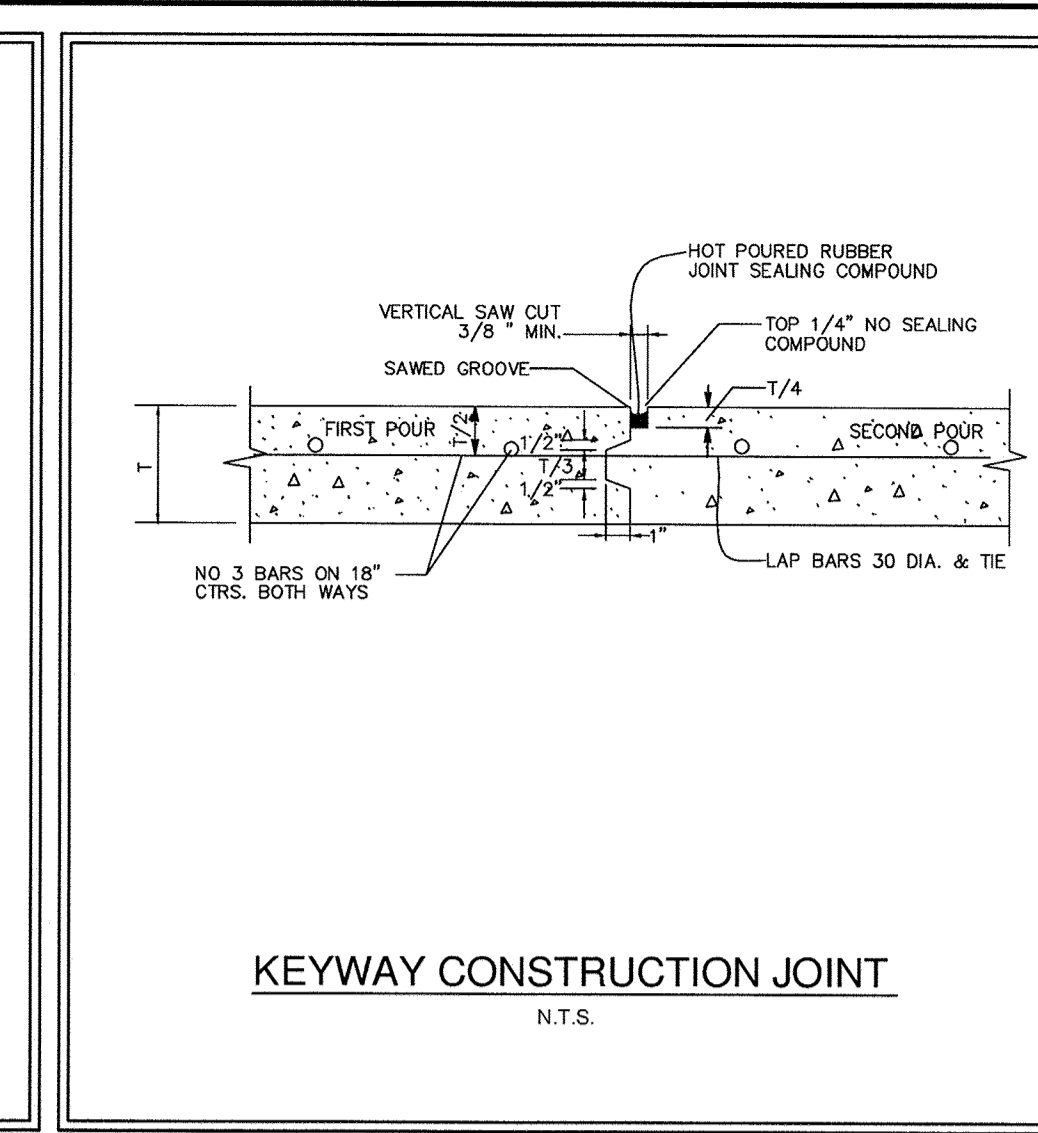
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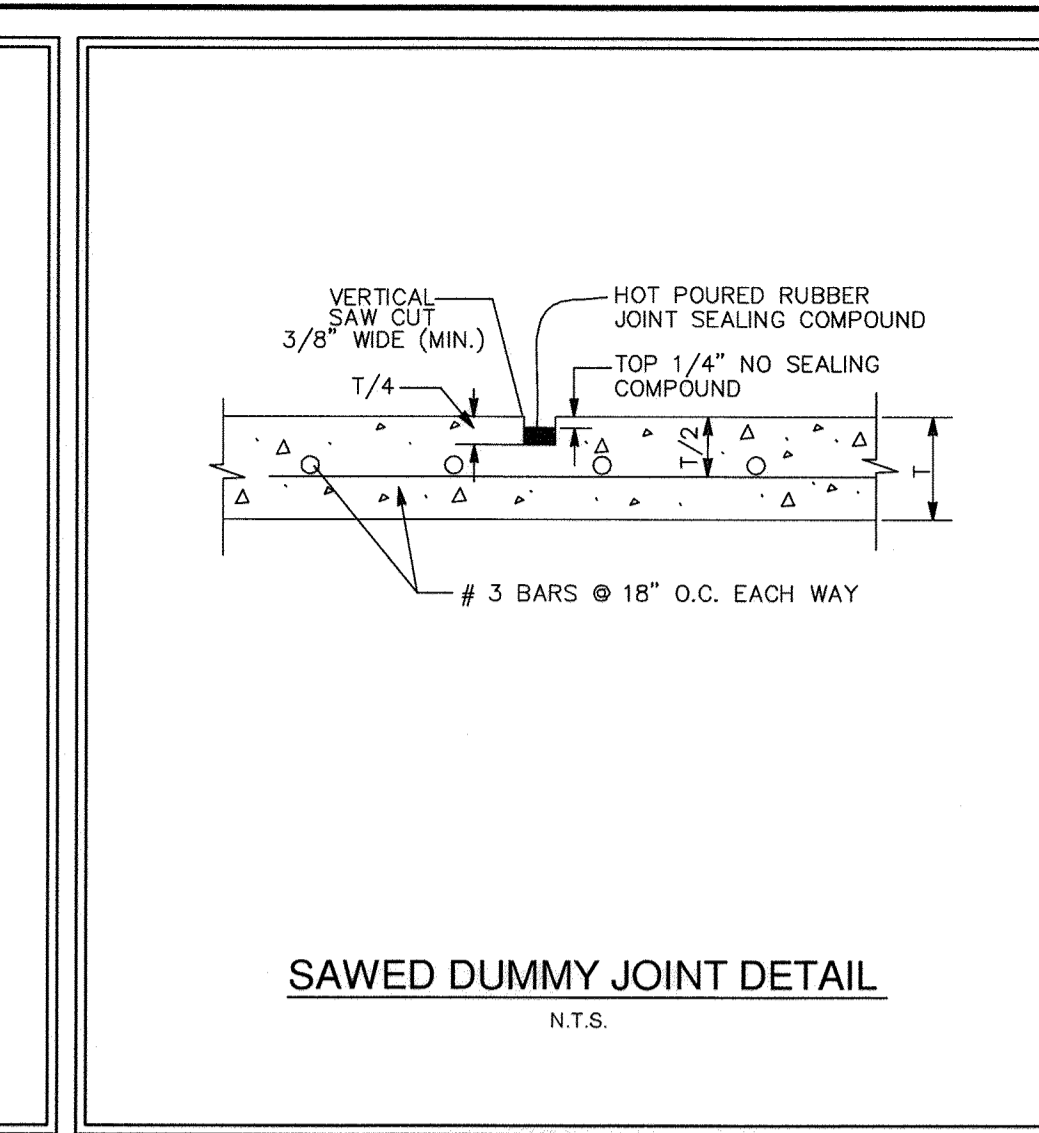
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N.T.S.



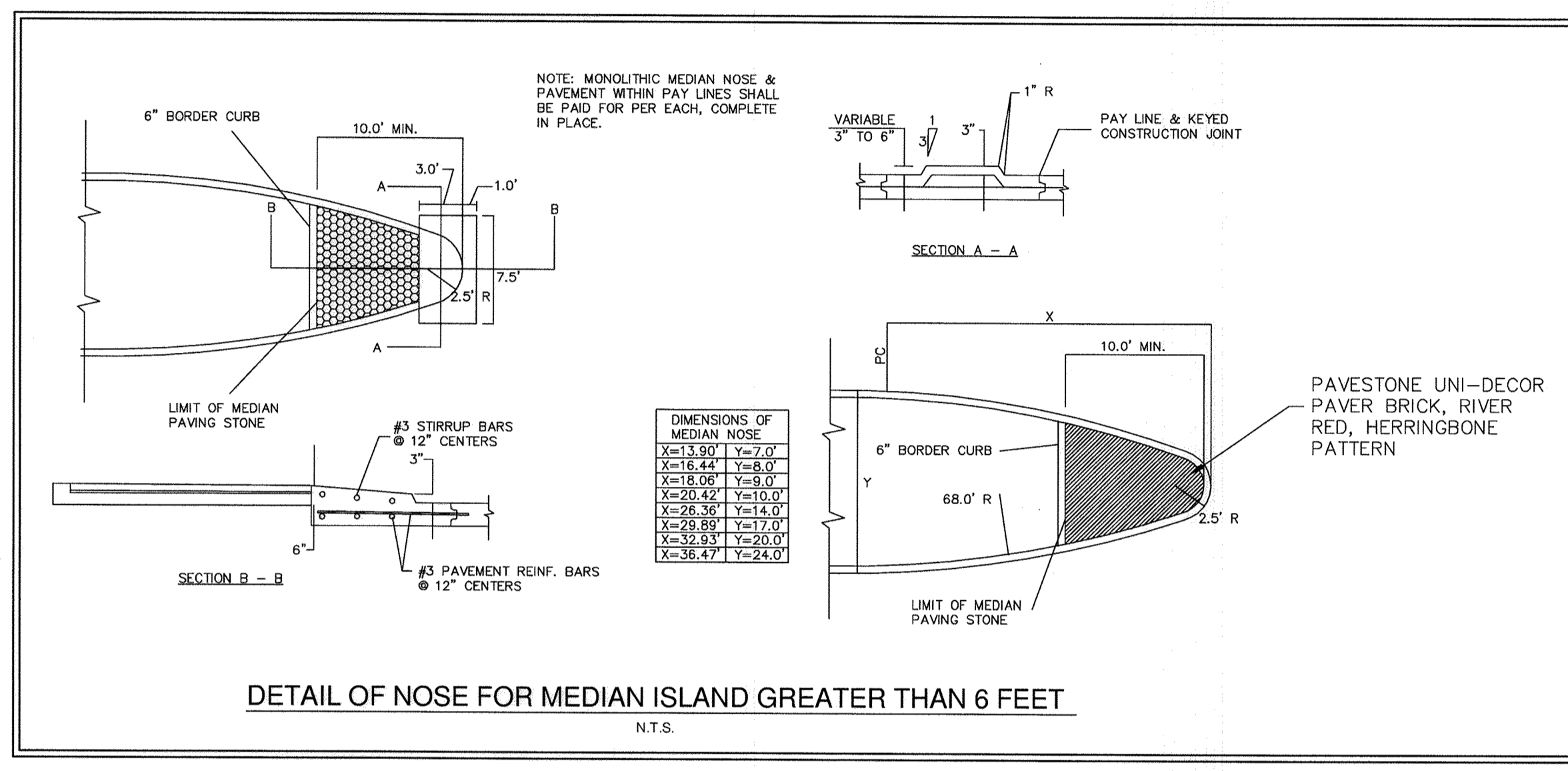
**DOWELED EXPANSION JOINT DETAIL**  
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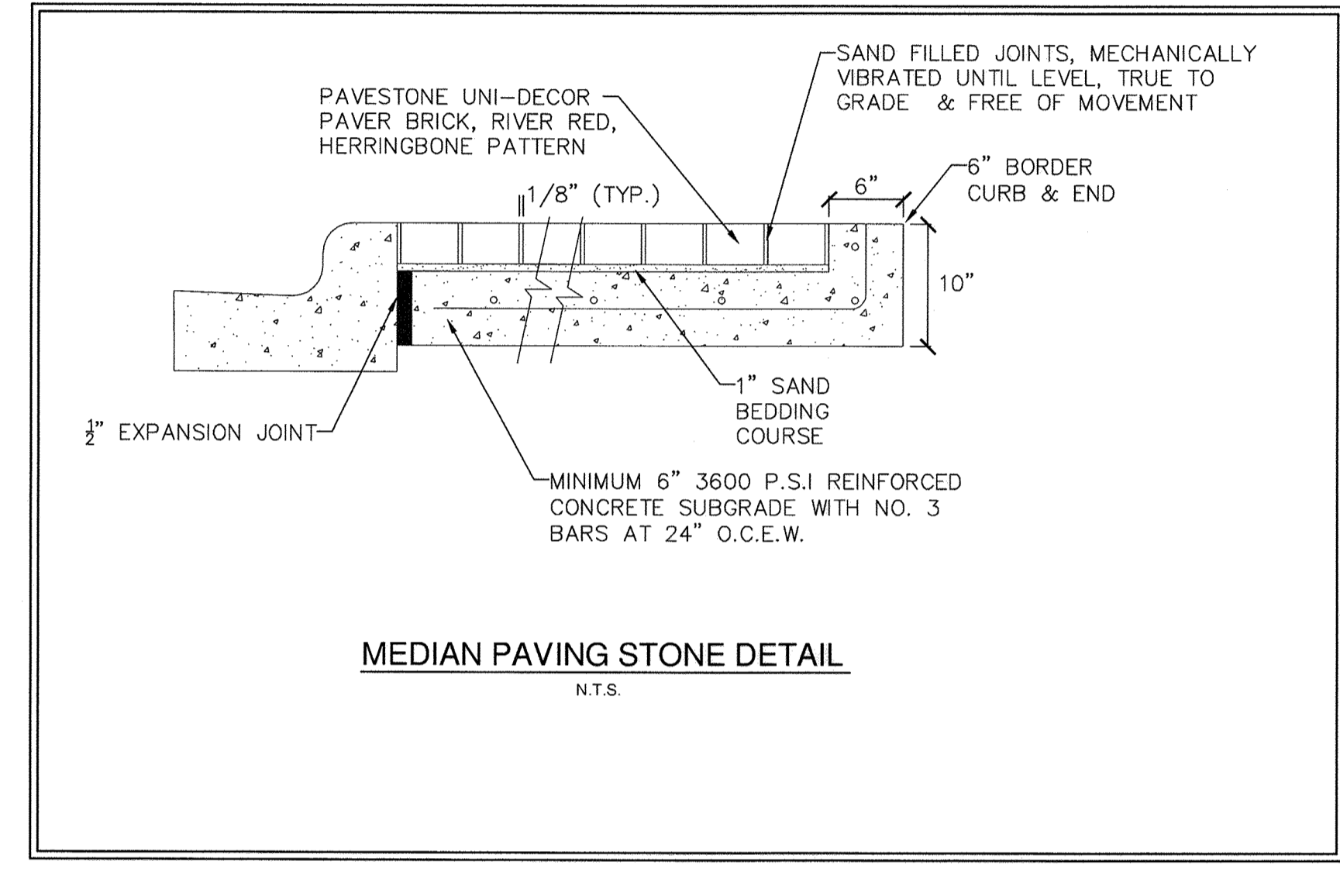
**KEYWAY CONSTRUCTION JOINT**  
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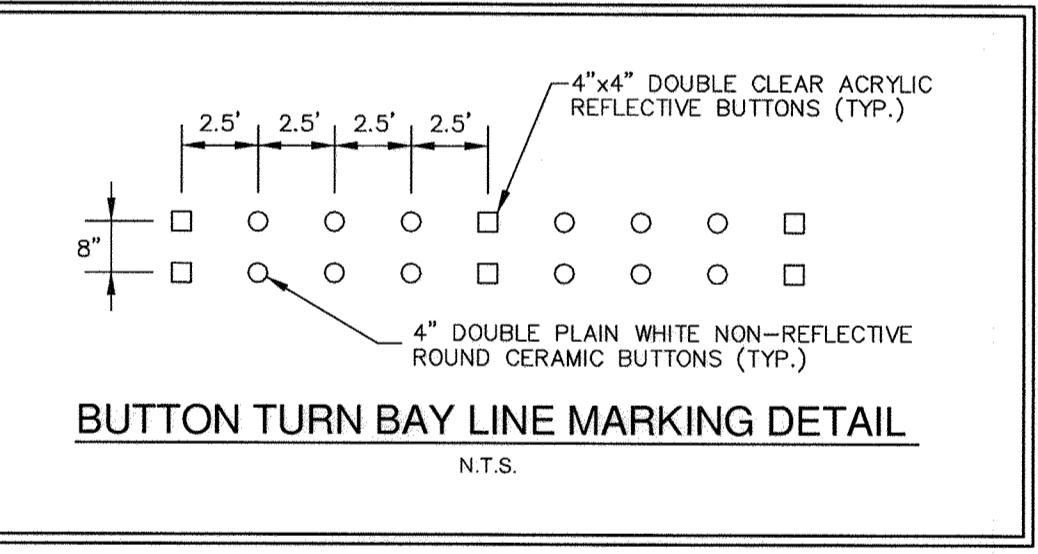
**SAWED DUMMY JOINT DETAIL**  
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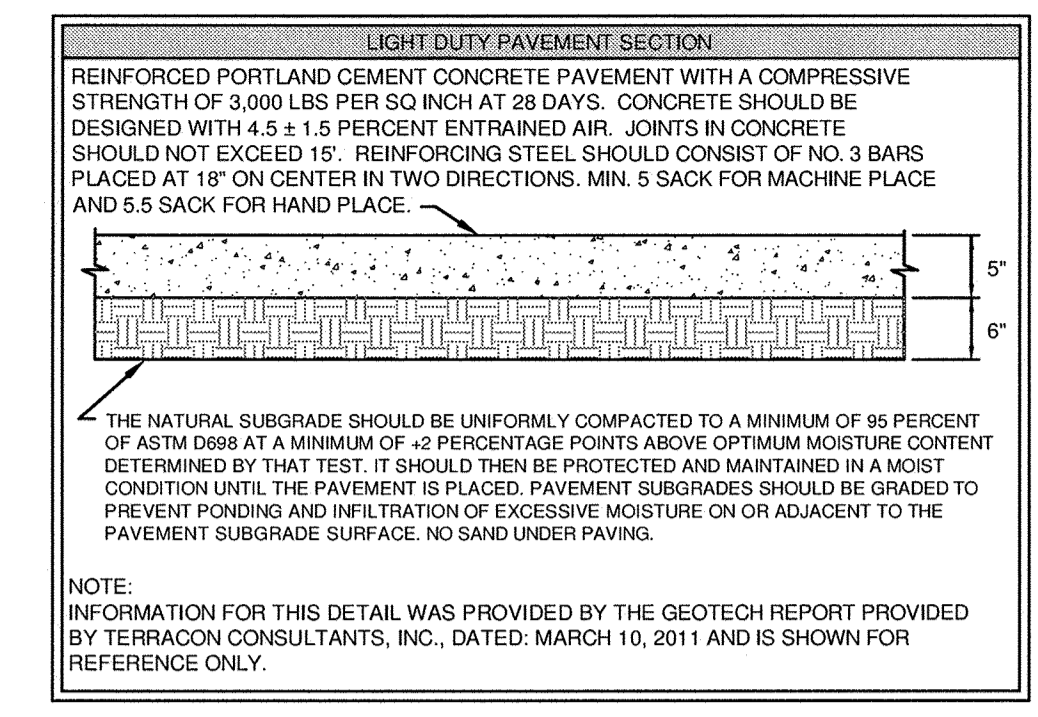
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N.T.S.



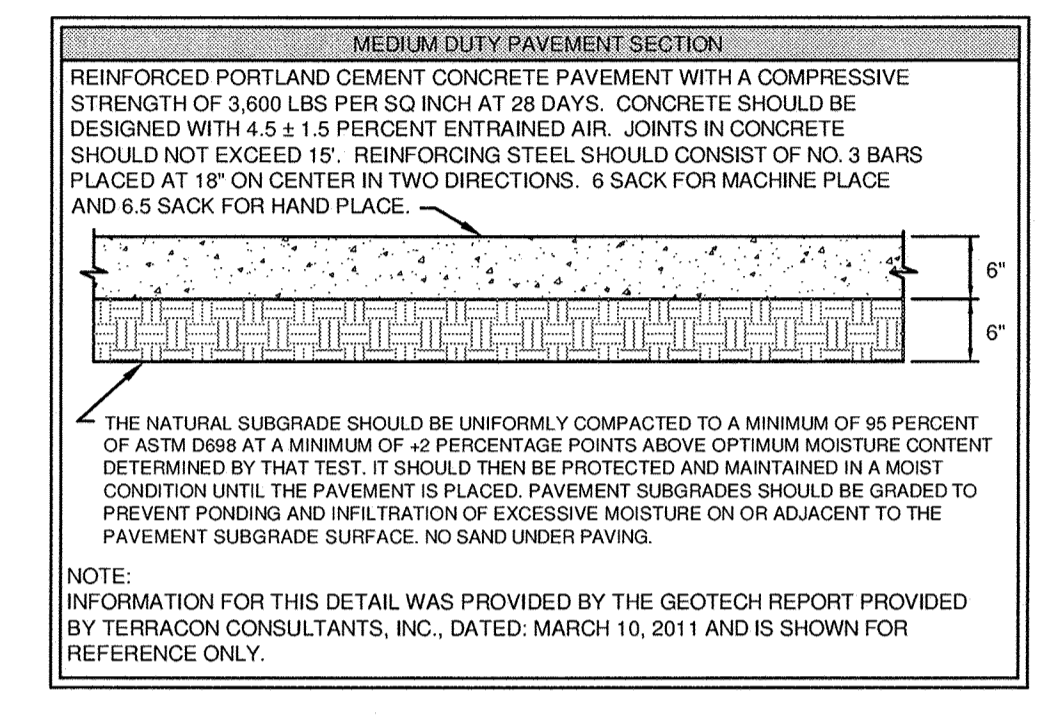
**MEDIAN PAVING STONE DETAIL**  
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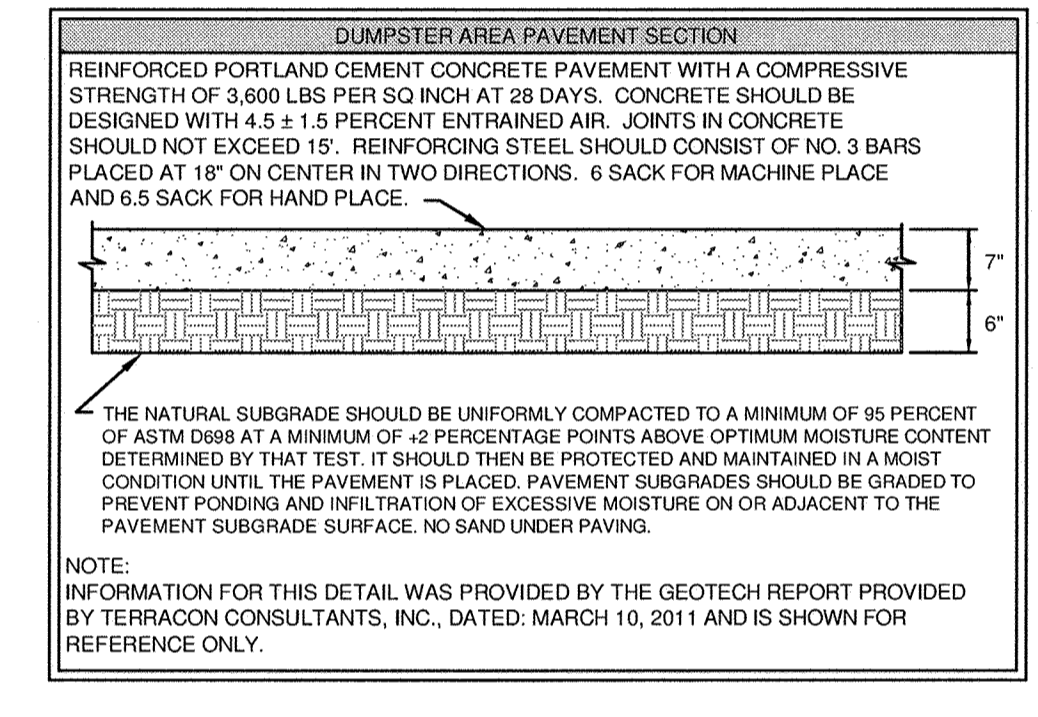
**BUTTON TURN BAY LINE MARKING DETAIL**  
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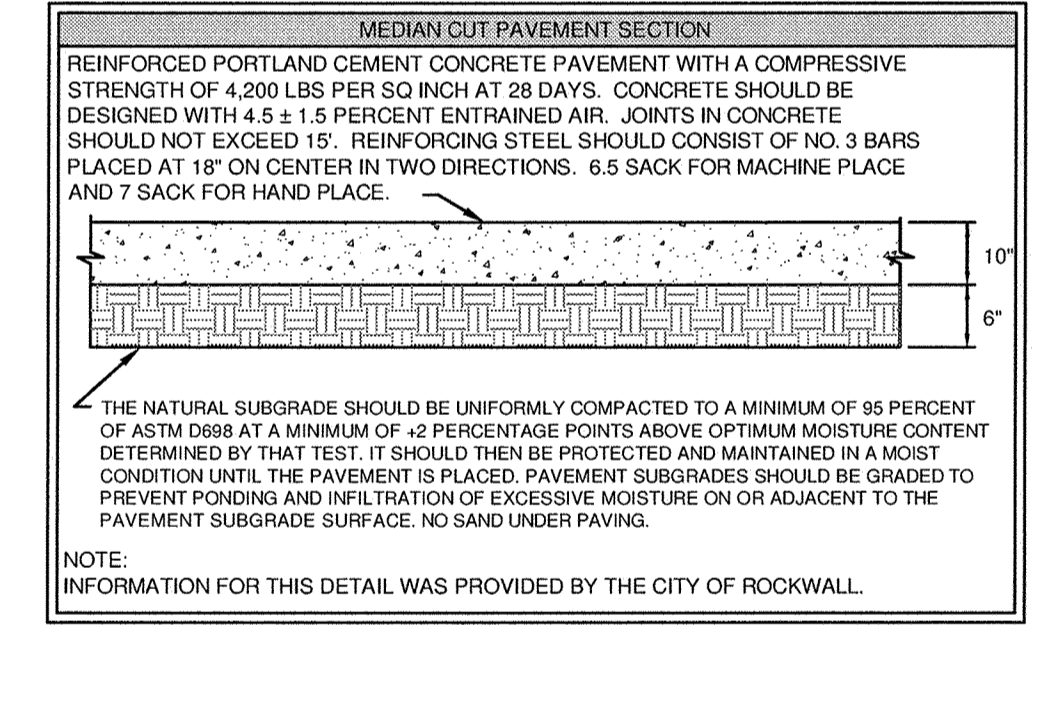
NOTE:  
INFORMATION FOR THIS DETAIL WAS PROVIDED BY THE GEOTECH REPORT PROVIDED BY TERRACON CONSULTANTS, INC., DATED: MARCH 10, 2011 AND IS SHOWN FOR REFERENCE ONLY.



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INFORMATION FOR THIS DETAIL WAS PROVIDED BY THE CITY OF ROCKWALL.

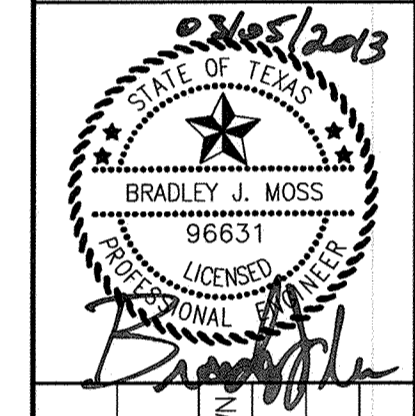
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DATE: 03/05/2013 BY: *Bradley J. Moss*

KHA PROJECT 06444700	DATE 03/05/2013	SCALE AS SHOWN	DESIGNED BY CRS	DRAWN BY CRS	CHECKED BY BIM	NO.	REVISIONS	DATE
<b>CONSTRUCTION DETAILS (SHEET 2 OF 2)</b>								
						12700 PARK CENTRAL DRIVE, SUITE 1800, DALLAS, TX 75251 PHONE: 972-770-1300 FAX: 972-239-3820 WWW.KIMLEY-HORN.COM TEXAS REGISTERED ENGINEERING FIRM F-928		
ROCKWALL RETIREMENT RESIDENCE PREPARED FOR THE HAWTHORN RETIREMENT GROUP						SHEET NUMBER <b>C3.4</b>		

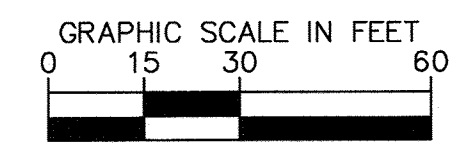
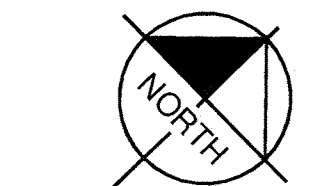
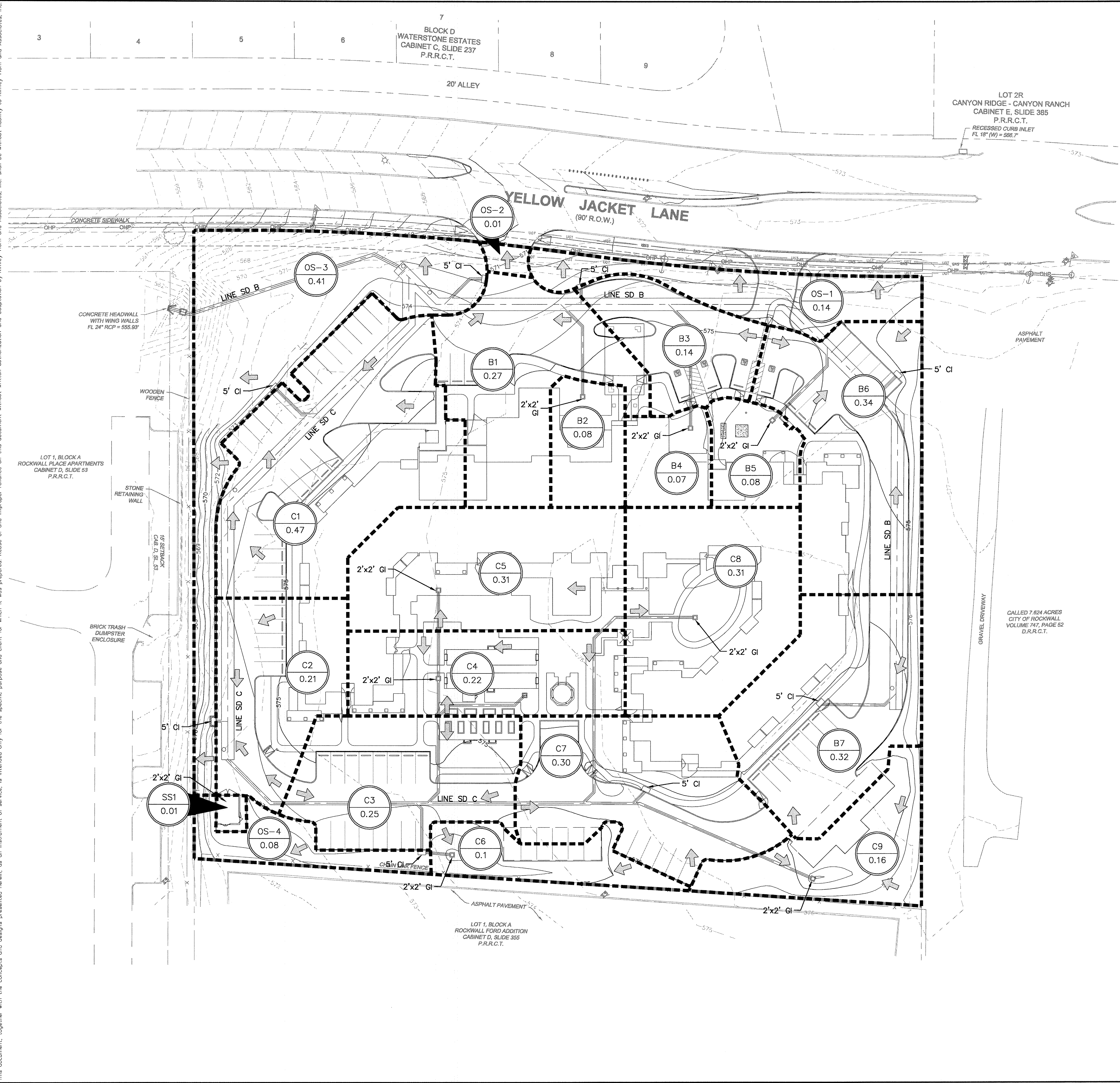








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LEGEND	
PROPERTY LINE	---
PROPOSED CONTOURS	---
EXISTING CONTOURS	---
DRAINAGE AREA BOUNDARY	---
PROPOSED FLOW ARROW	→
PROPOSED DRAINAGE AREA INFORMATION	
A-1	→ ID
0.23	→ AREA (AC)

ID	AREA (AC)	RUNOFF COEFF.	TIME OF CONC. (MIN)	I <sub>100</sub> (IN/HR)	Q <sub>100</sub> (C.F.S.)	REMARKS
B1	0.27	0.9	10	9.8	2.38	PROPOSED CURB INLET
B2	0.08	0.9	10	9.8	0.71	PROPOSED LANDSCAPE INLET
B3	0.14	0.9	10	9.8	1.23	PROPOSED CURB INLET
B4	0.07	0.9	10	9.8	0.62	PROPOSED LANDSCAPE INLET
B5	0.08	0.9	10	9.8	0.71	PROPOSED LANDSCAPE INLET
B6	0.34	0.9	10	9.8	3.00	PROPOSED CURB INLET
B7	0.32	0.9	10	9.8	2.92	PROPOSED CURB INLET
C1	0.47	0.9	10	9.8	4.15	PROPOSED CURB INLET
C2	0.21	0.9	10	9.8	1.85	PROPOSED CURB INLET
C3	0.25	0.9	10	9.8	2.21	PROPOSED CURB INLET
C4	0.22	0.9	10	9.8	1.94	PROPOSED LANDSCAPE INLET
C5	0.31	0.9	10	9.8	2.73	PROPOSED LANDSCAPE INLET
C6	0.1	0.9	10	9.8	0.88	PROPOSED LANDSCAPE INLET
C7	0.30	0.9	10	9.8	3.35	PROPOSED CURB INLET
C8	0.31	0.9	10	9.8	2.85	PROPOSED LANDSCAPE INLET
C9	0.16	0.9	10	9.8	1.41	PROPOSED LANDSCAPE INLET
OS-1	0.14	0.9	10	9.8	1.23	DRAINS OFFSITE TO YELLOW JACKET LN
OS-2	0.01	0.9	10	9.8	0.09	DRAINS OFFSITE TO YELLOW JACKET LN
OS-3	0.41	0.9	10	9.8	3.62	DRAINS OFFSITE TO DRAINAGE SWALE
OS-4	0.08	0.9	10	9.8	0.71	DRAINS OFFSITE TO DRAINAGE SWALE
SS1	0.01	0.9	10	9.8	0.09	PROPOSED SANITARY SEWER INLET
TOTAL						37.75

"RECORD DRAWING"  
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 DATE: 03/05/2013 BY: *Bradley J. Moss*

- BENCHMARKS:**
- #1: 4" Aluminum disk in concrete stamped "City of Rockwall Monument R005" located in the center median of Summit Ridge Drive west of F.M. 740. Elev. = 578.706'
  - #2: 2" Brass disk in concrete stamped "City of Rockwall Monument R013" located in front of 1208 Lakeshore Drive southwest of the intersection of Lakeshore Drive and Summit Ridge. Elev. = 450.606'
  - #3: Square set with "X" on the southeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 100 feet northeast of Kyle Drive. Elev. = 522.11'
  - #4: Square set with "X" on the northeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 10 feet southwest of westerly entrance into city park and baseball fields. Elev. = 572.50'

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	SHEET NUMBER <b>C5.1</b>

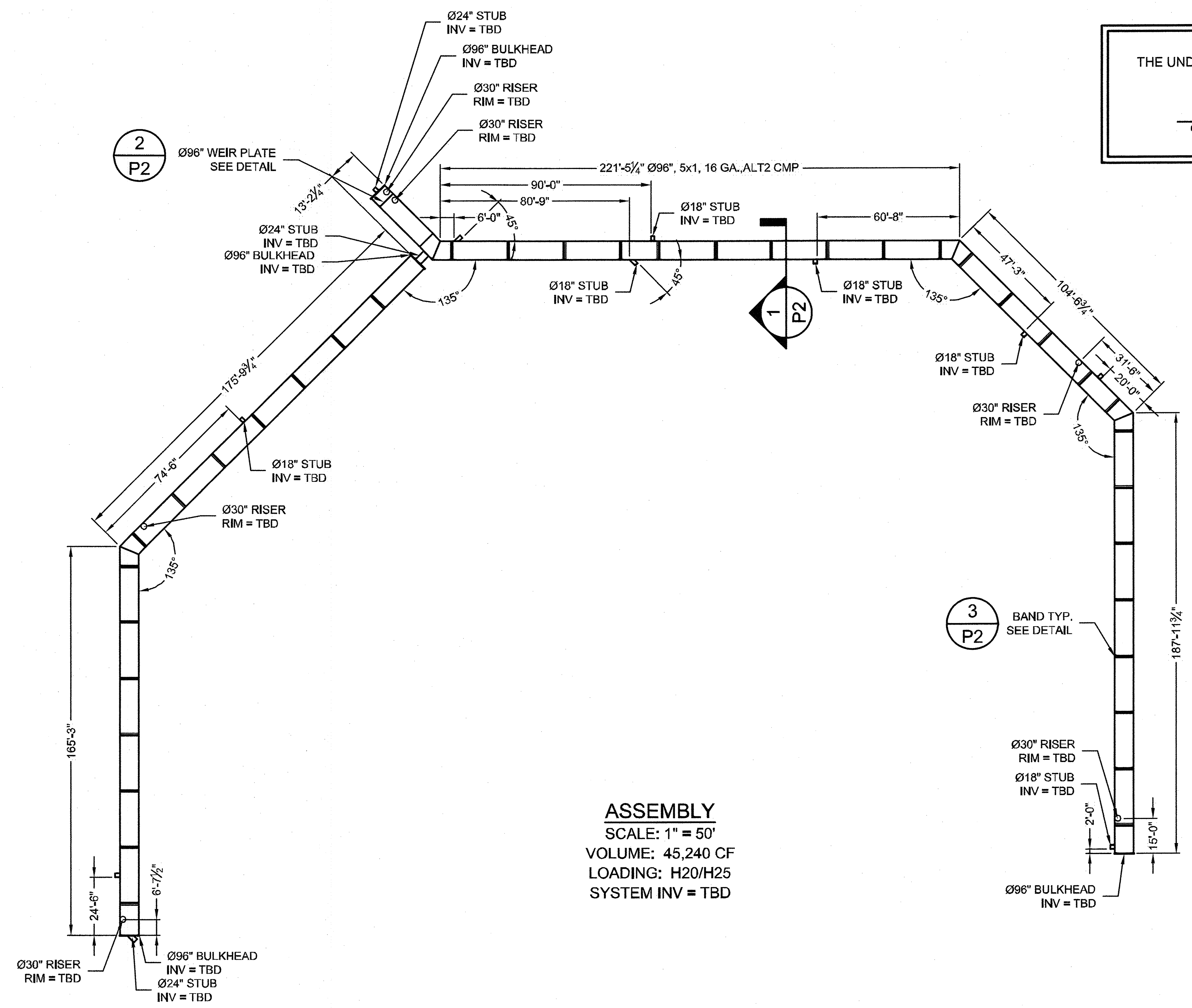






THE UNDERSIGNED HEREBY APPROVES THE ATTACHED (3) PAGES.

CUSTOMER \_\_\_\_\_ DATE \_\_\_\_\_



**ASSEMBLY**  
 SCALE: 1" = 50'  
 VOLUME: 45,240 CF  
 LOADING: H20/H25  
 SYSTEM INV = TBD

**NOTES**

- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE.
- ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
- ALL RISERS AND STUBS ARE 2 3/8" x 1/2" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE.

I:\AD\CONTECH\CPL\COM\ROOT\MERLIN\PROJECT\ACTIVE\442005\442005-001\CMP\DET+PRO.DWG 9/22/2011 2:28 PM

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MARK	DATE	REVISION DESCRIPTION	BY

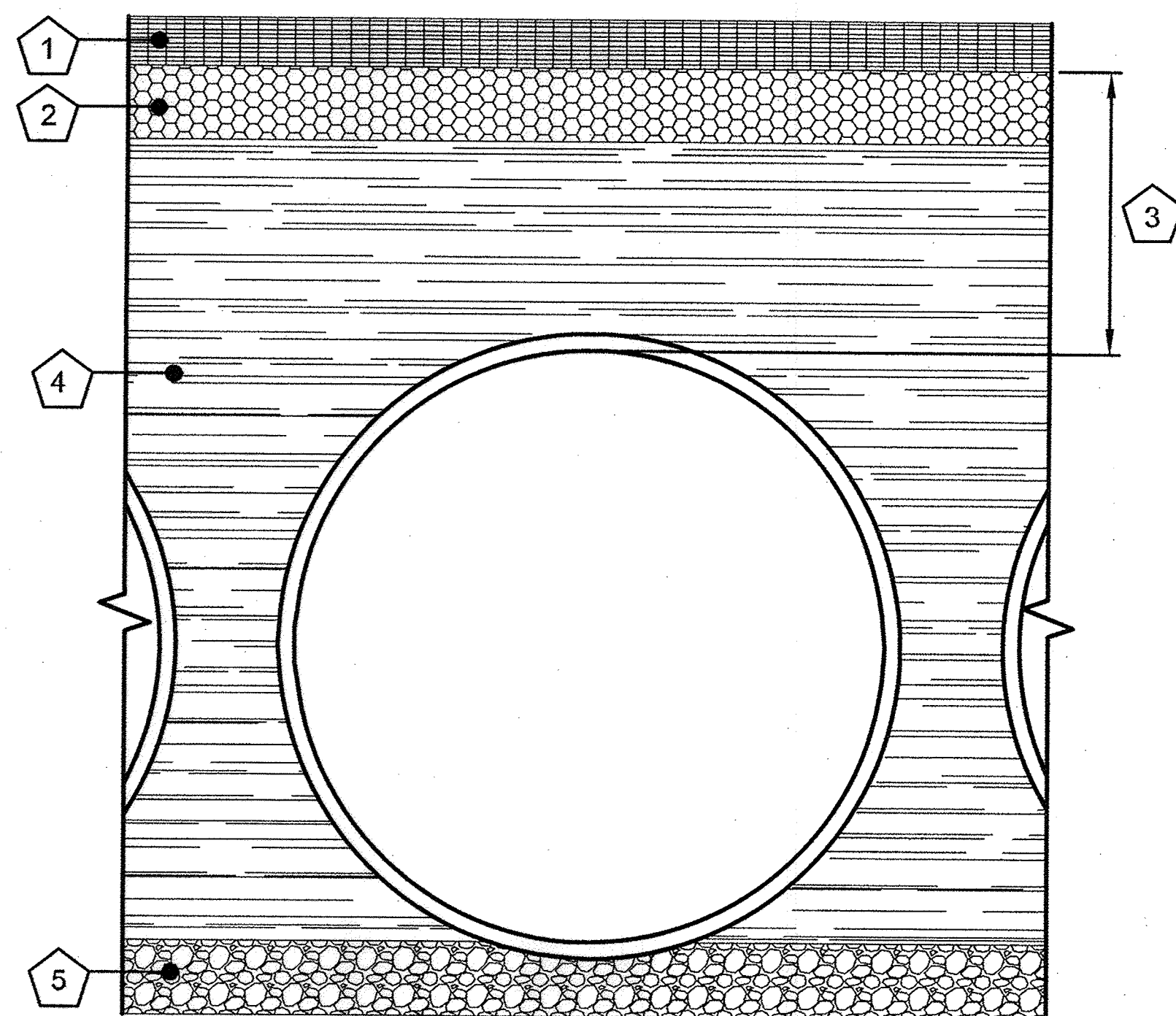
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 DRAWING

Ø96" UNDERGROUND DETENTION SYSTEM - 442005-001  
 ROCKWALL RETIREMENT RESIDENCE  
 ROCKWALL, TX  
 SITE DESIGNATION:

PROJECT No.: 442005	SEQ. No.: 001	DATE: 9/21/2011
DESIGNED: HES	DRAWN: RRB	
CHECKED:	APPROVED:	
SHEET NO.:	P1 OF 3	





- KEY**
1. RIGID OR FLEXIBLE PAVEMENT
  2. GRANULAR ROAD BASE
  3. 12" MIN. FOR DIAMETERS THROUGH 96"  
18" MIN. FOR DIAMETERS FROM 102"  
AND LARGER MEASURED TO TOP OF RIGID  
OR BOTTOM OF FLEXIBLE PAVEMENT.
  4. SELECT GRANULAR FILL PER AASHTO M145  
A1, A2 OR A3, OR APPROVED EQUAL,  
PLACED IN 8" LIFTS (COMPACTED TO MIN.  
90% STANDARD DENSITY PER AASHTO T99.)
  5. GRANULAR BEDDING, ROUGHLY SHAPED TO  
FIT THE BOTTOM OF PIPE, 4" TO 6" IN DEPTH

**FOUNDATION/BEDDING PREPARATION**

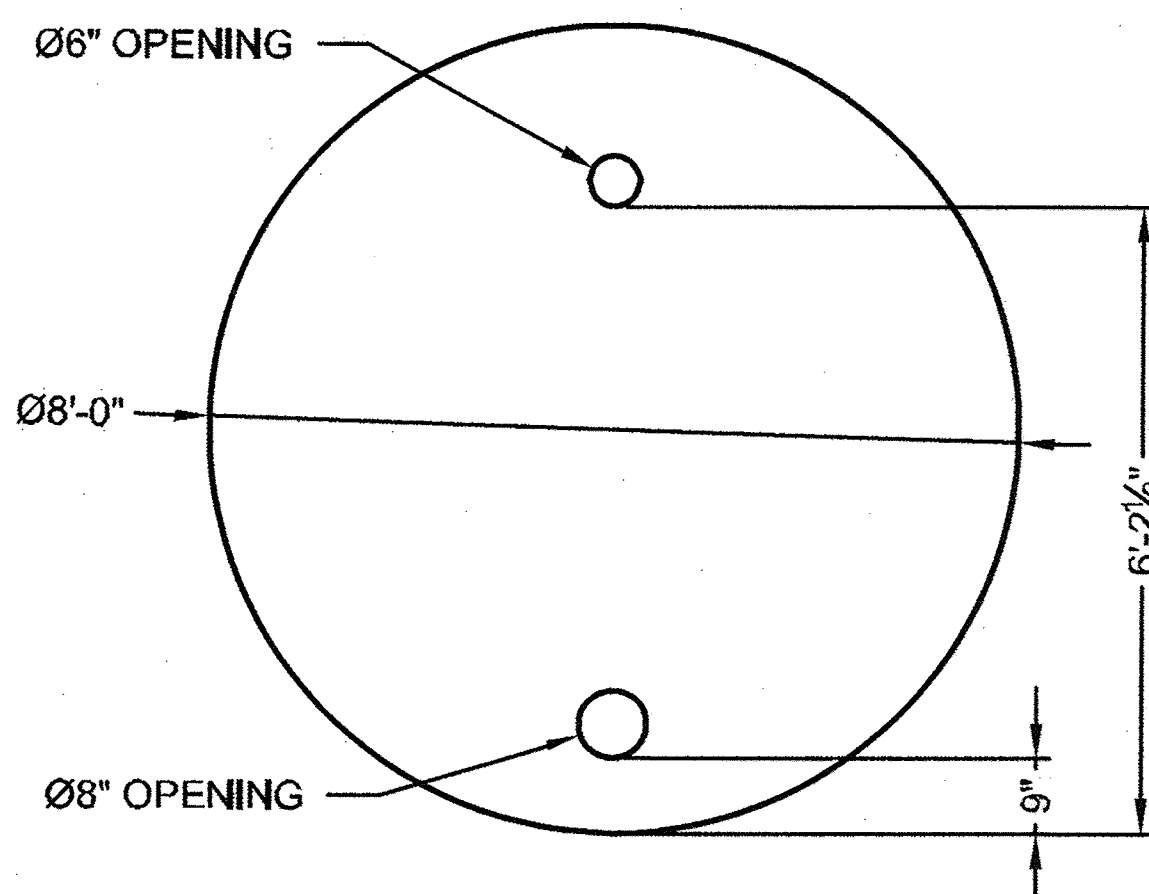
PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND BROUGHT BACK TO THE GRADE WITH A FILL MATERIAL AS APPROVED BY THE ENGINEER. ONCE THE FOUNDATION PREPARATION IS COMPLETE, 4" - 6" OF A WELL-GRADED GRANULAR MATERIAL SHALL BE PLACED AS THE BEDDING.

**BACKFILL**

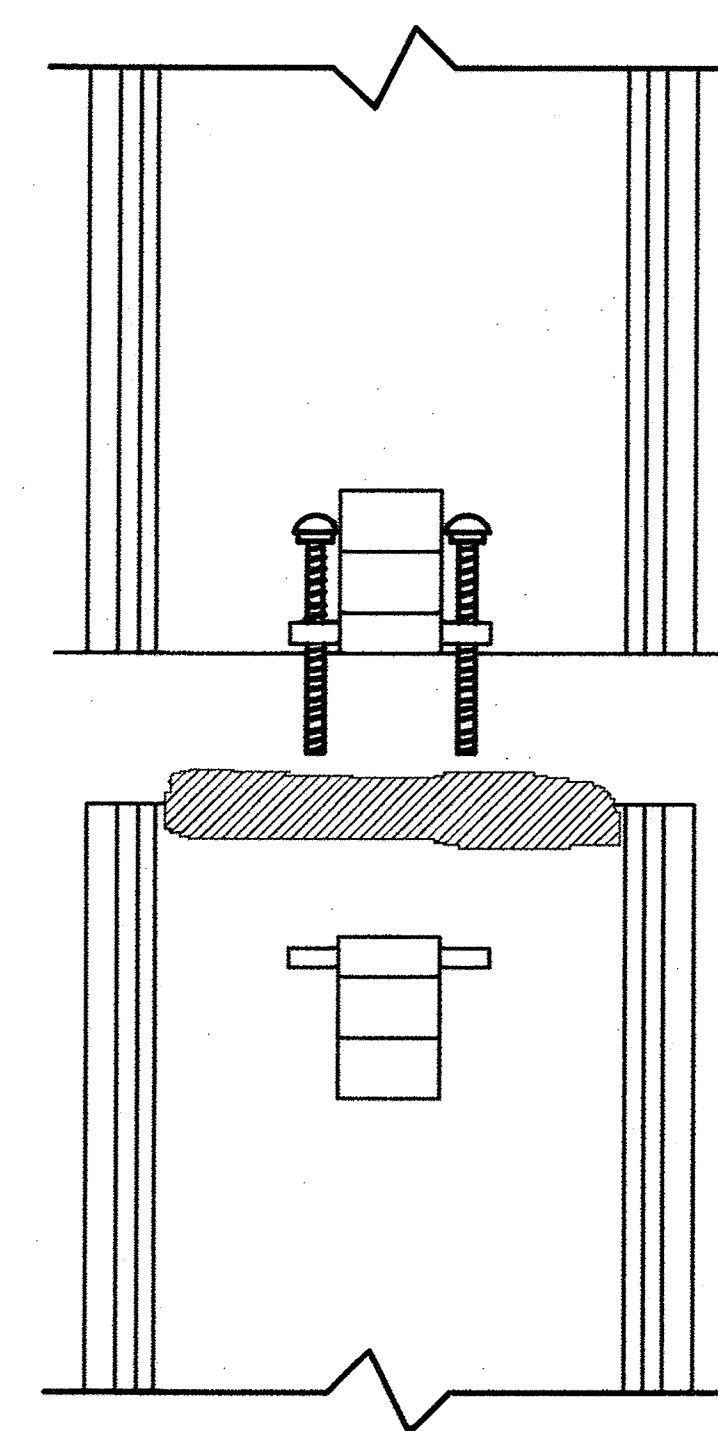
THE BACKFILL SHALL BE AN A1, A2 OR A3 GRANULAR FILL PER AASHTO M145, OR A WELL-GRADED GRANULAR FILL AS APPROVED BY THE SITE ENGINEER (SEE INSTALLATION GUIDELINES). THE MATERIAL SHALL BE PLACED IN 8" LOOSE LIFTS AND COMPACTED TO 90% AASHTO T99 STANDARD PROCTOR DENSITY. WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO LIFT (16") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE DETENTION SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON THE PIPE.

OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS, AS APPROVED BY SITE ENGINEER.

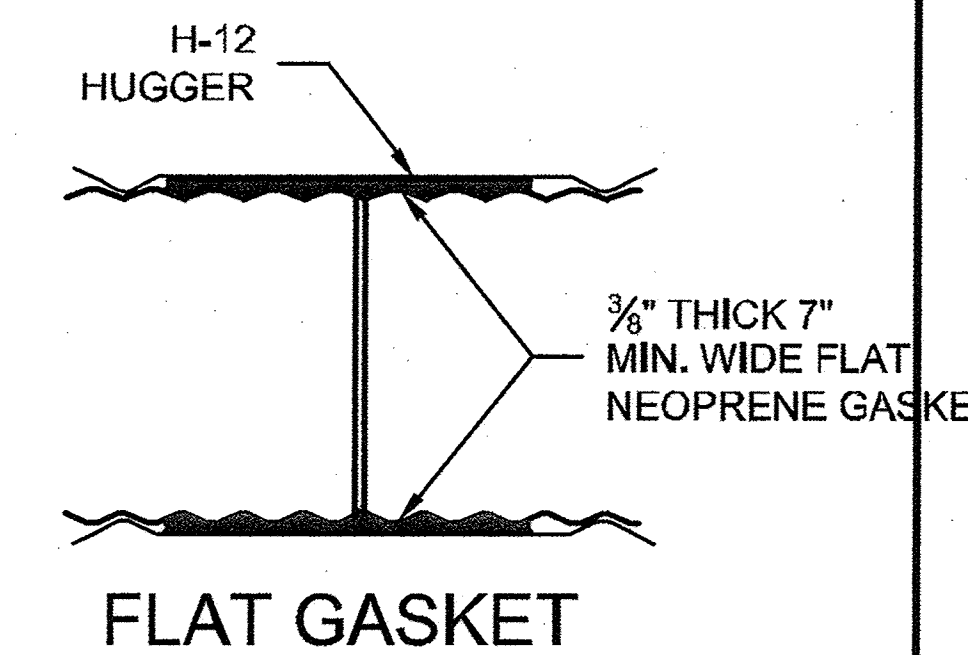
1 BACKFILL DETAIL  
P2 SCALE: N.T.S.



2 TYP WEIR PLATE DETAIL  
P2 SCALE: N.T.S.



**CONNECTION DETAIL  
SINGLE BOLT, BAR AND STRAP**



**GENERAL NOTES**

1. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:  
12" THRU 48", 1-PIECE  
54" THRU 96", 2-PIECE  
102" THRU 144", 3-PIECES
2. BAND FASTENERS ARE ATTACHED WITH SPOT WELDS, RIVETS OR HAND WELDS
3. REROLLED ANNULAR END CORRUGATIONS ARE NORMALLY 2 3/8" x 1/2". DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES

3 H-12 HUGGER BAND DETAIL  
P2 SCALE: N.T.S.

I:\D\CONTECH\CPL\COMPROJ\ROCKWALL\PROJECT\ACTIVE\442005\442005-001-CMP DETENTION DRAWINGS\PROPOSAL\442005-001-CMP DET DET.DWG 9/22/2011 12:27 PM

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MARK	DATE	REVISION DESCRIPTION	BY

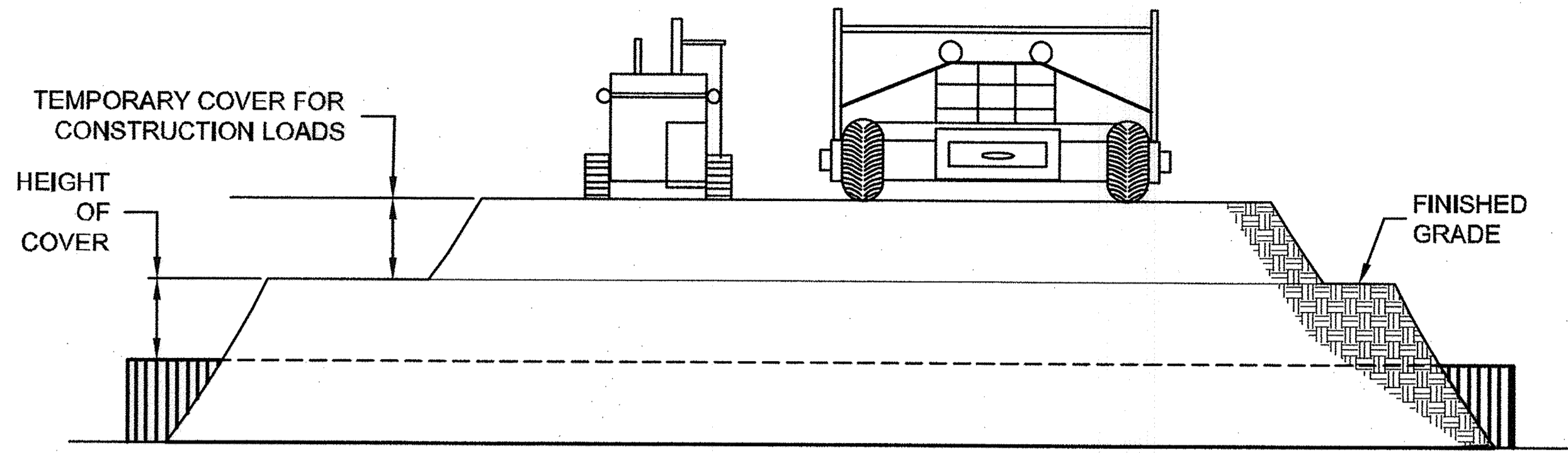
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CONSTRUCTION PRODUCTS INC.  
www.contech-cpl.com  
605 Global Way Suite 113, Linthicum, MD 21090  
866-740-3318 410-796-5505 866-378-8511 FAX

**CONTECH**  
CMP DETENTION SYSTEMS  
CONTECH PROPOSAL DRAWING

Ø96" UNDERGROUND DETENTION SYSTEM - 442005-001  
ROCKWALL RETIREMENT RESIDENCE  
ROCKWALL, TX  
SITE DESIGNATION:

PROJECT No.: 442005	SEQ. No.: 001	DATE: 9/21/2011
DESIGNED: HES	DRAWN: RRB	
CHECKED:	APPROVED:	
SHEET NO.:		P2 OF 3





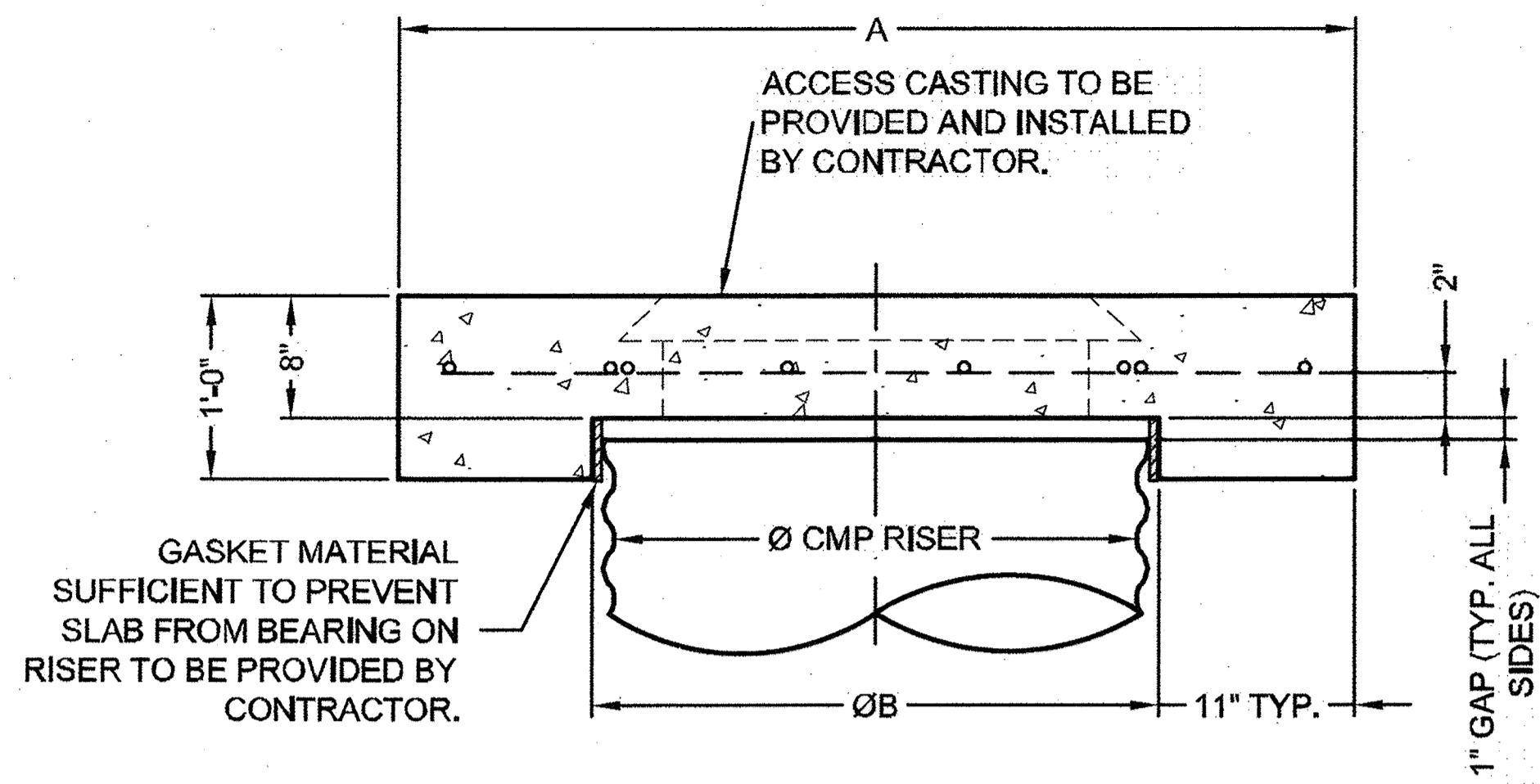
**CONSTRUCTION LOADS**

FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC.

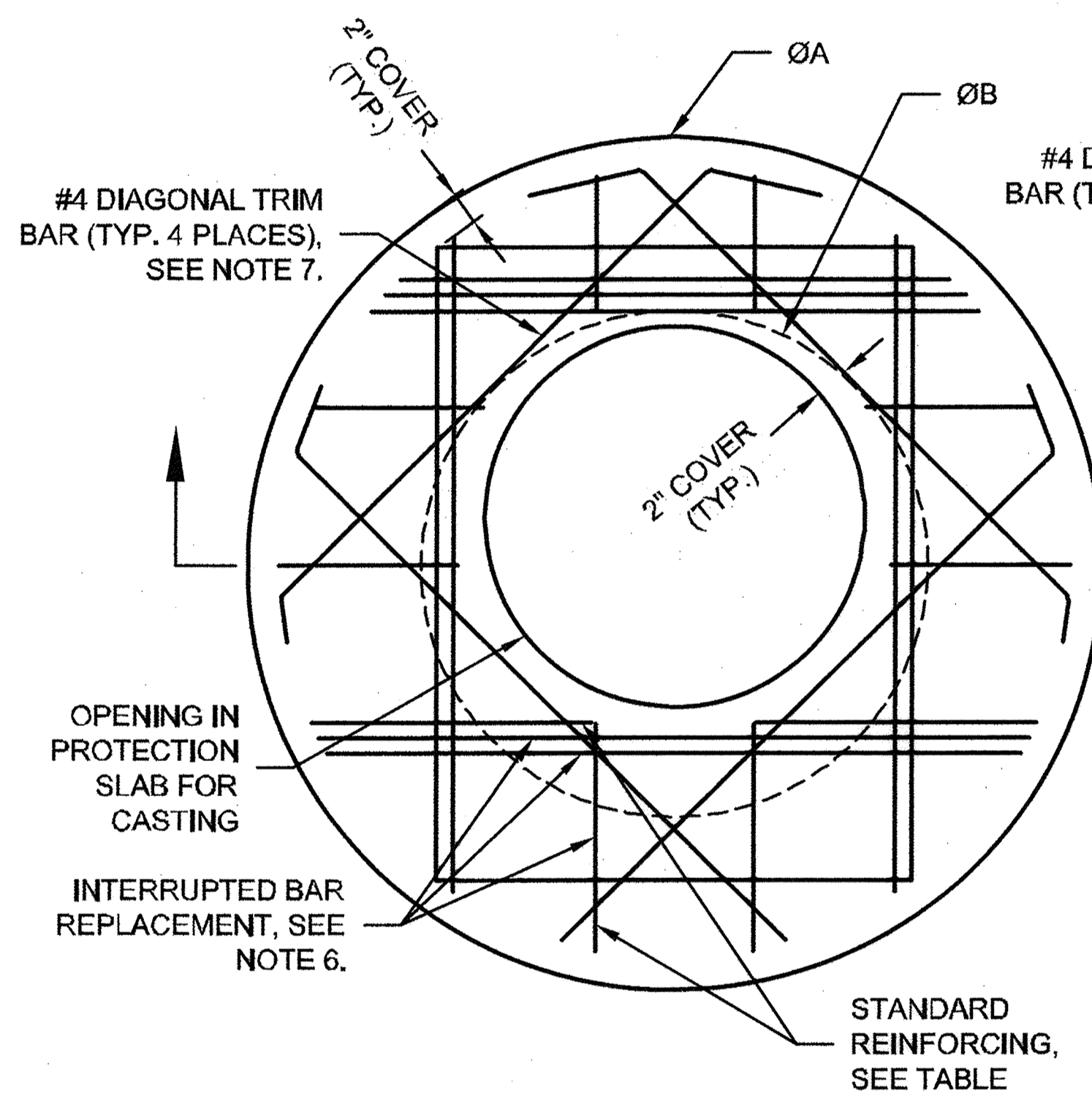
PIPE SPAN, INCHES	AXLE LOADS (kips)			
	18-50	50-75	75-110	110-150
ALUM.	MINIMUM COVER (FT)			
12-42	3.0	3.5	4.0	4.0
48-72	4.0	4.0	5.0	5.5
78-120	4.0	5.0	5.5	5.5

\*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.

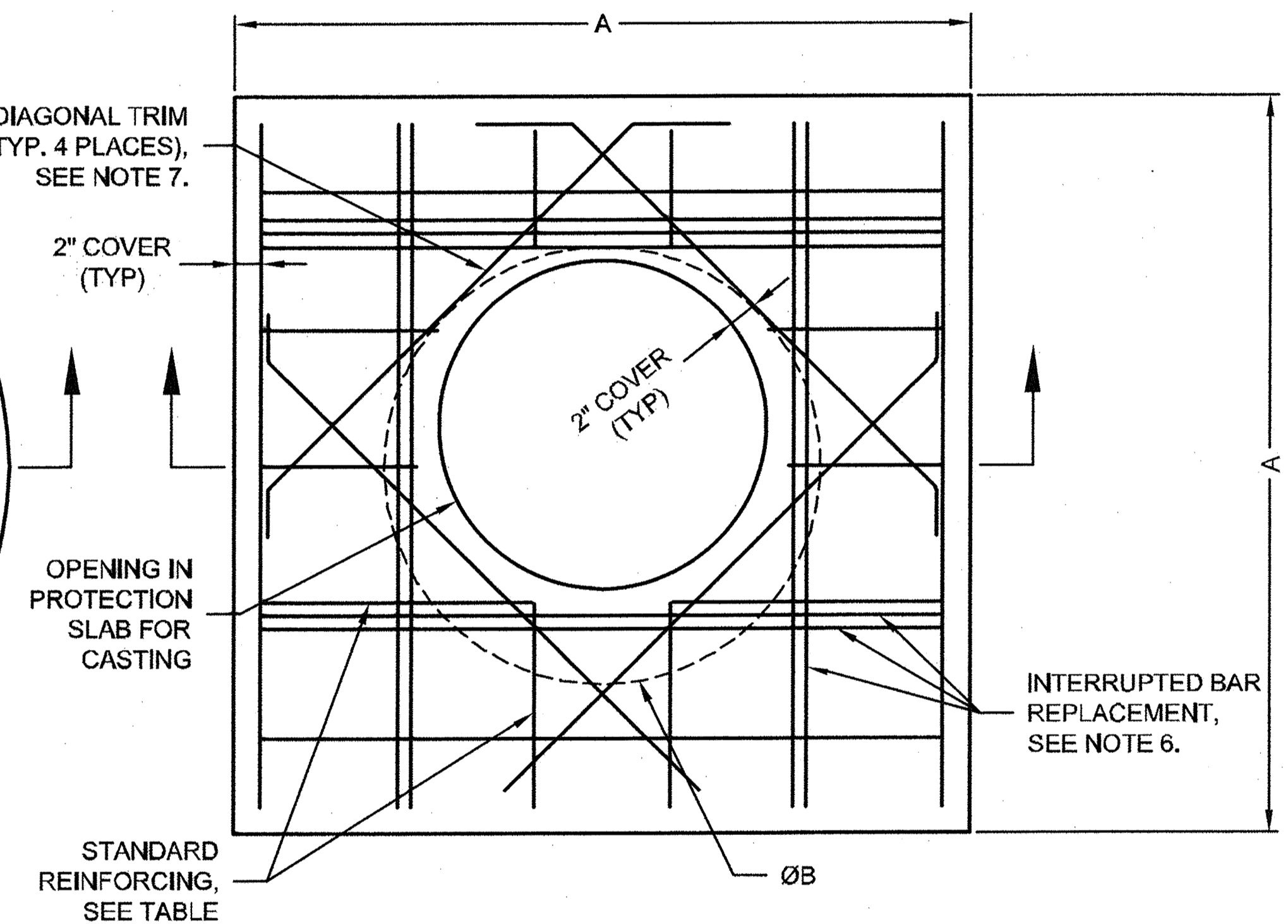
**3 CONSTRUCTION LOADING DIAGRAM**  
SCALE: N.T.S.



**SECTION VIEW**



**ROUND OPTION PLAN VIEW**



**SQUARE OPTION PLAN VIEW**

Ø CMP RISER	A	Ø B	REINFORCING	**BEARING PRESSURE (PSF)
24"	Ø 4' 4'X4'	26"	#5 @ 12" OCEW #5 @ 12" OCEW	2,410 1,780
30"	Ø 4'-6" 4'-6" X 4'-6"	32"	#5 @ 12" OCEW #5 @ 12" OCEW	2,120 1,530
36"	Ø 5' 5' X 5'	38"	#5 @ 10" OCEW #5 @ 10" OCEW	1,890 1,350
42"	Ø 5'-6" 5'-6" X 5'-6"	44"	#5 @ 10" OCEW #5 @ 9" OCEW	1,720 1,210
48"	Ø 6' 6' X 6'	50"	#5 @ 9" OCEW #5 @ 8" OCEW	1,600 1,100

\*\* ASSUMED SOIL BEARING CAPACITY

**SPECIFICATION FOR CORRUGATED STEEL PIPE-ALUMINIZED TYPE 2 STEEL**

**SCOPE**

THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.

**MATERIAL**

THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A929.

**PIPE**

THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M36 OR ASTM A760. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.

ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.

**HANDLING AND ASSEMBLY**

SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSIPA)

**INSTALLATION**

SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II OR ASTM A798 AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

**NOTES:**

- DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION.
- DESIGN LOAD HS25.
- EARTH COVER = 1' MAX.
- CONCRETE STRENGTH = 3,500 psi
- REINFORCING STEEL = ASTM A615, GRADE 60.
- PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.
- TRIM OPENING WITH DIAGONAL #4 BARS. EXTEND BARS A MINIMUM OF 12" BEYOND OPENING, BEND BARS AS REQUIRED TO MAINTAIN BAR COVER.
- PROTECTION SLAB AND ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
- DETAIL DESIGN BY DELTA ENGINEERING, BINGHAMTON, NY.

**4 MANHOLE CAP DETAIL**  
SCALE: N.T.S.

I:\DC\CONTECH\CPL\COMB\PROJECT\ACT\VE\420005\42005-001-CMP DET-PRD.DWG 9/22/2011 2:27 PM

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CMP DETENTION SYSTEMS  
CONTECH PROPOSAL DRAWING

Ø96" UNDERGROUND DETENTION SYSTEM - 442005-001  
ROCKWALL RETIREMENT RESIDENCE  
ROCKWALL, TX  
SITE DESIGNATION:

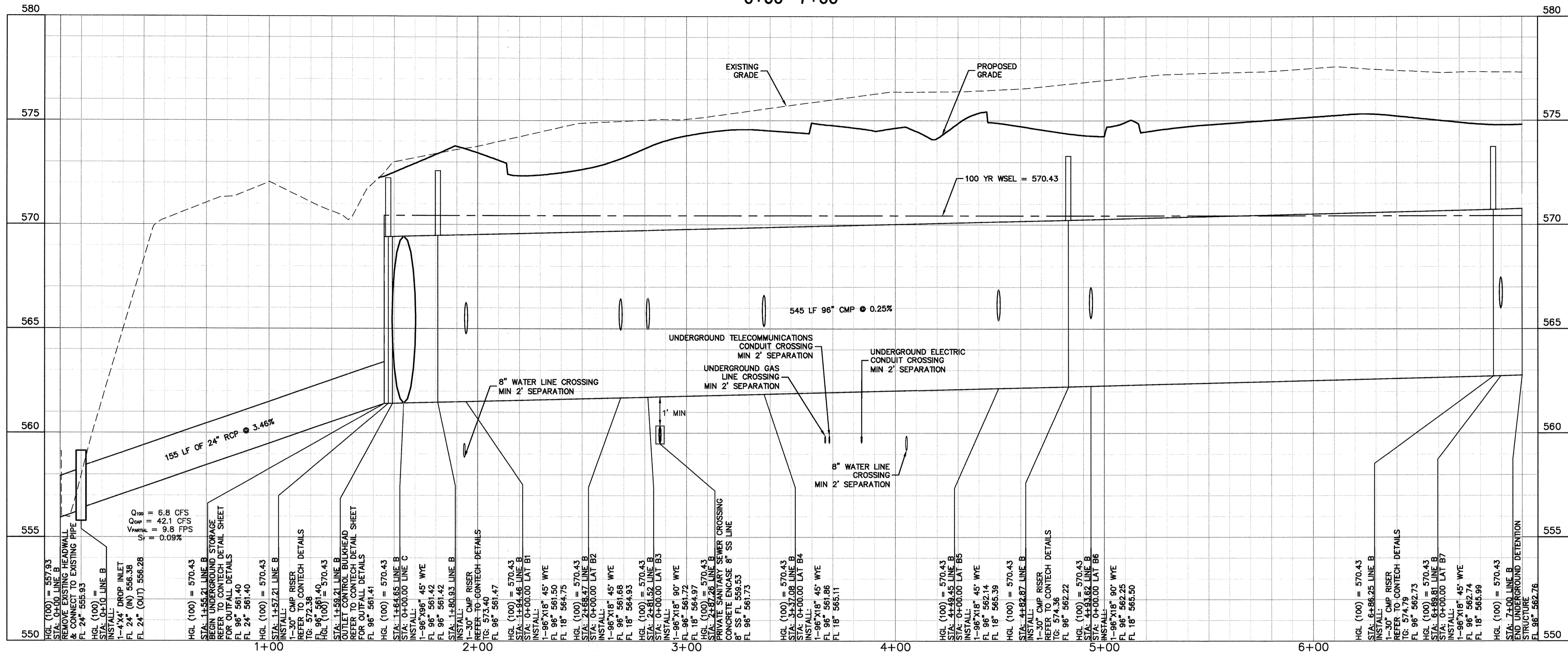
PROJECT No.: 442005	SEQ. No.: 001	DATE: 9/21/2011
DESIGNED: HES	DRAWN: RRB	
CHECKED:	APPROVED:	
SHEET NO: P3 OF 3		







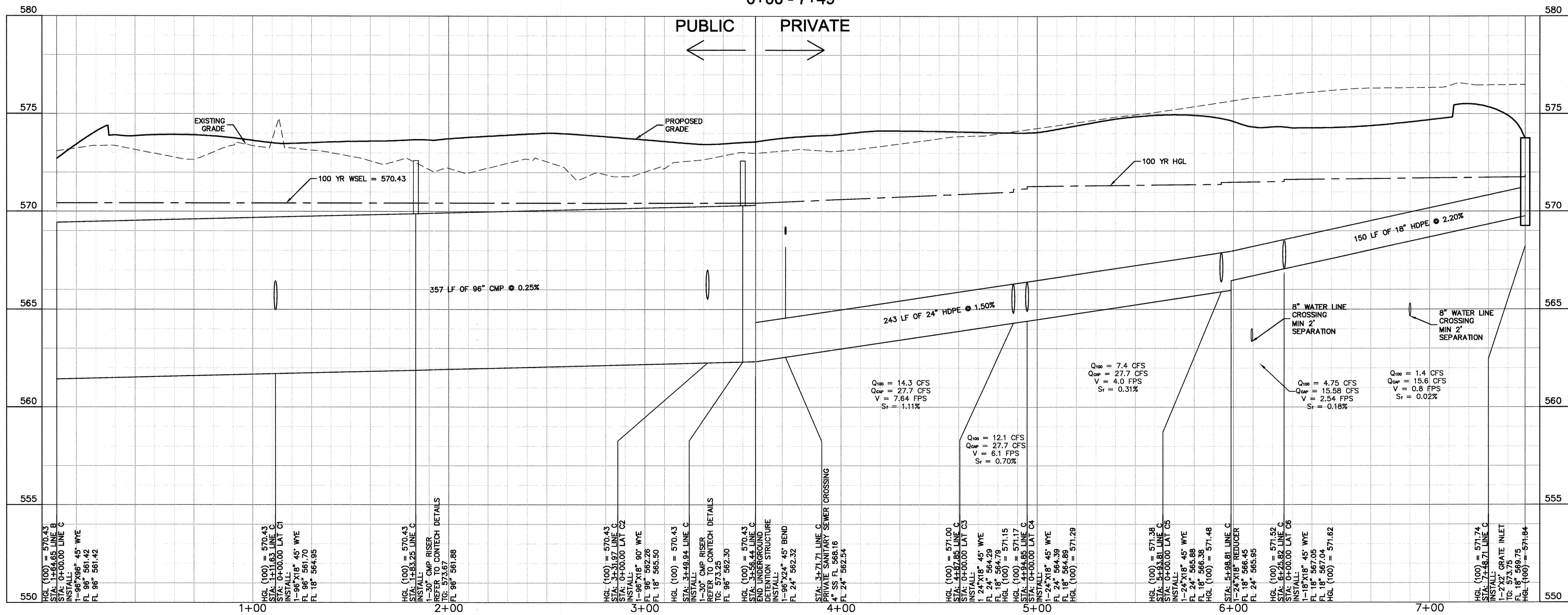
STORM LINE B  
PUBLIC  
0+00 - 7+00



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THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.  
DATE: 03/05/2013 BY: *Bradley J. Moss*

SCALE H: 1" = 30'  
V: 1" = 3'

STORM LINE C  
PUBLIC PRIVATE  
0+00 - 7+49



ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

**CAUTION!**  
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

- BENCHMARKS:**
- #1: 4" Aluminum disk in concrete stamped "City of Rockwall Monument R005" located in the center median of Summit Ridge Drive west of F. M. 740. Elev. = 578.708'
  - #2: 2" Brass disk in concrete stamped "City of Rockwall Monument R013" located in front of 1208 Lakeshore Drive southwest of the intersection of Lakeshore Drive and Summit Ridge. Elev. = 450.600'
  - #3: Square set with "X" on the southeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 100 feet northeast of Kyle Drive. Elev. = 522.11'
  - #4: Square set with "X" on the northeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 10 feet southwest of westerly entrance into city park and baseball fields. Elev. = 572.50'

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

**STORM SEWER PROFILE (SHEET 1 OF 2)**

**ROCKWALL RETIREMENT RESIDENCE PREPARED FOR THE HAWTHORN RETIREMENT GROUP**

CITY OF ROCKWALL, TEXAS

KHA PROJECT: 064444700

DATE: 03/05/2013

SCALE: AS SHOWN

DESIGNED BY: CRS

DRAWN BY: CRS

CHECKED BY: BJM

RAISED FF 1.05

02/22/2012

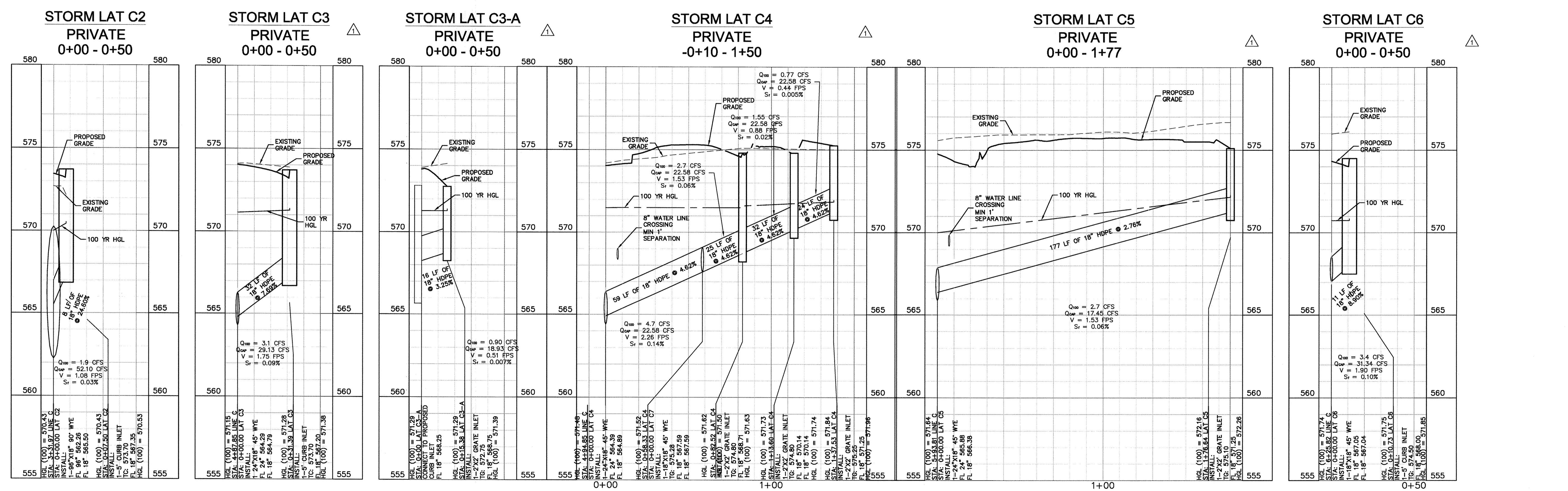
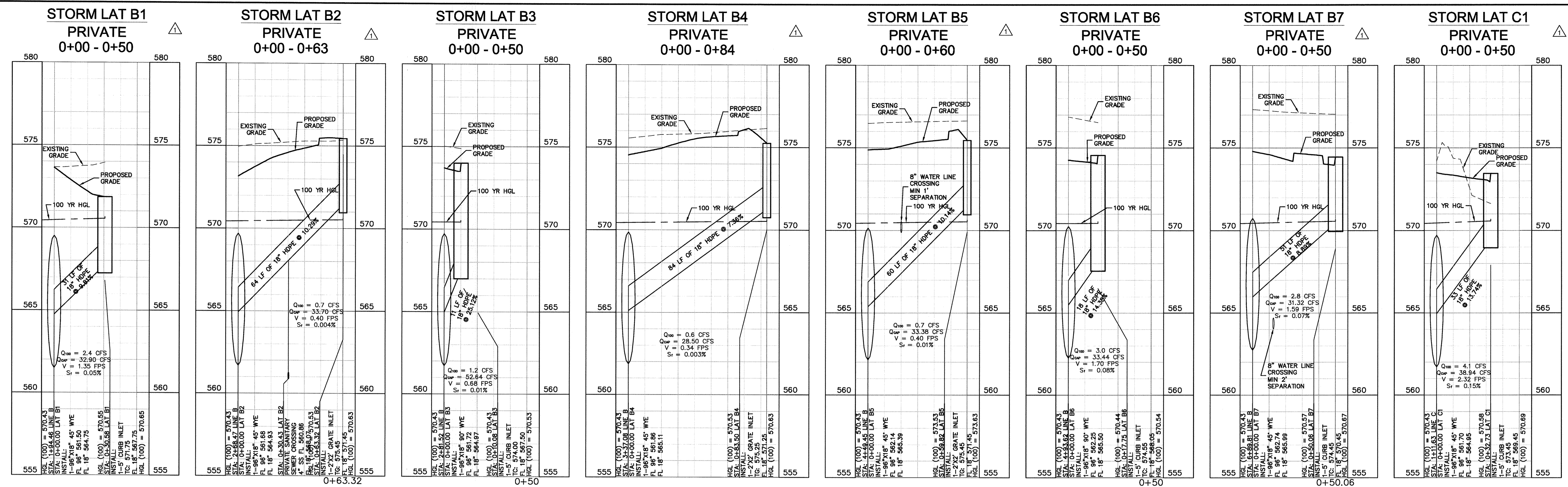
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SHEET NUMBER **C5.7**

Kimley-Horn and Associates, Inc.  
12700 PARK CENTRAL DRIVE, SUITE 1800, DALLAS, TX 75251  
PHONE: 972-770-1300 FAX: 972-239-3820  
WWW.KIMLEY-HORN.COM  
TEXAS REGISTERED ENGINEERING FIRM F-928



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**BENCHMARKS:**

- #1: 4" Aluminum disk in concrete stamped "City of Rockwall Monument R005" located in the center median of Summit Ridge Drive west of F. M. 740. Elev. = 575.700'
- #2: 2" Brass disk in concrete stamped "City of Rockwall Monument R013" located in front of 1208 Lakeshore Drive southwest of the intersection of Lakeshore Drive and Summit Ridge. Elev. = 450.600'
- #3: Square set with "X" on the southeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 100 feet northeast of Kyle Drive. Elev. = 522.11'
- #4: Square set with "X" on the northeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 100 feet southwest of westerly entrance into city park and baseball fields. Elev. = 572.50"

**CAUTION!**

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SCALE H: 1" = 30'  
V: 1" = 3'

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1-800-DIG-TESS  
(at least 72 hours prior to digging)

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DATE: 03/05/2013 BY: *Brady J. Moss*

KHA PROJECT: 06444700  
DATE: 03/05/2013  
SCALE: AS SHOWN  
DESIGNED BY: CRS  
DRAWN BY: CRS  
CHECKED BY: BJM

02/22/2012  
1 RAISED FF 1.05'

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PHONE: 972-770-1300 FAX: 972-239-3620  
WWW.KIMLEY-HORN.COM  
TEXAS REGISTERED ENGINEERING FIRM F-928

BRADLEY J. MOSS  
LICENSED PROFESSIONAL ENGINEER  
STATE OF TEXAS  
LICENSE NO. 96563

**STORM SEWER PROFILE (SHEET 2 OF 2)**

ROCKWALL RETIREMENT RESIDENCE PREPARED FOR THE HAWTHORN RETIREMENT GROUP

TEXAS  
CITY OF ROCKWALL

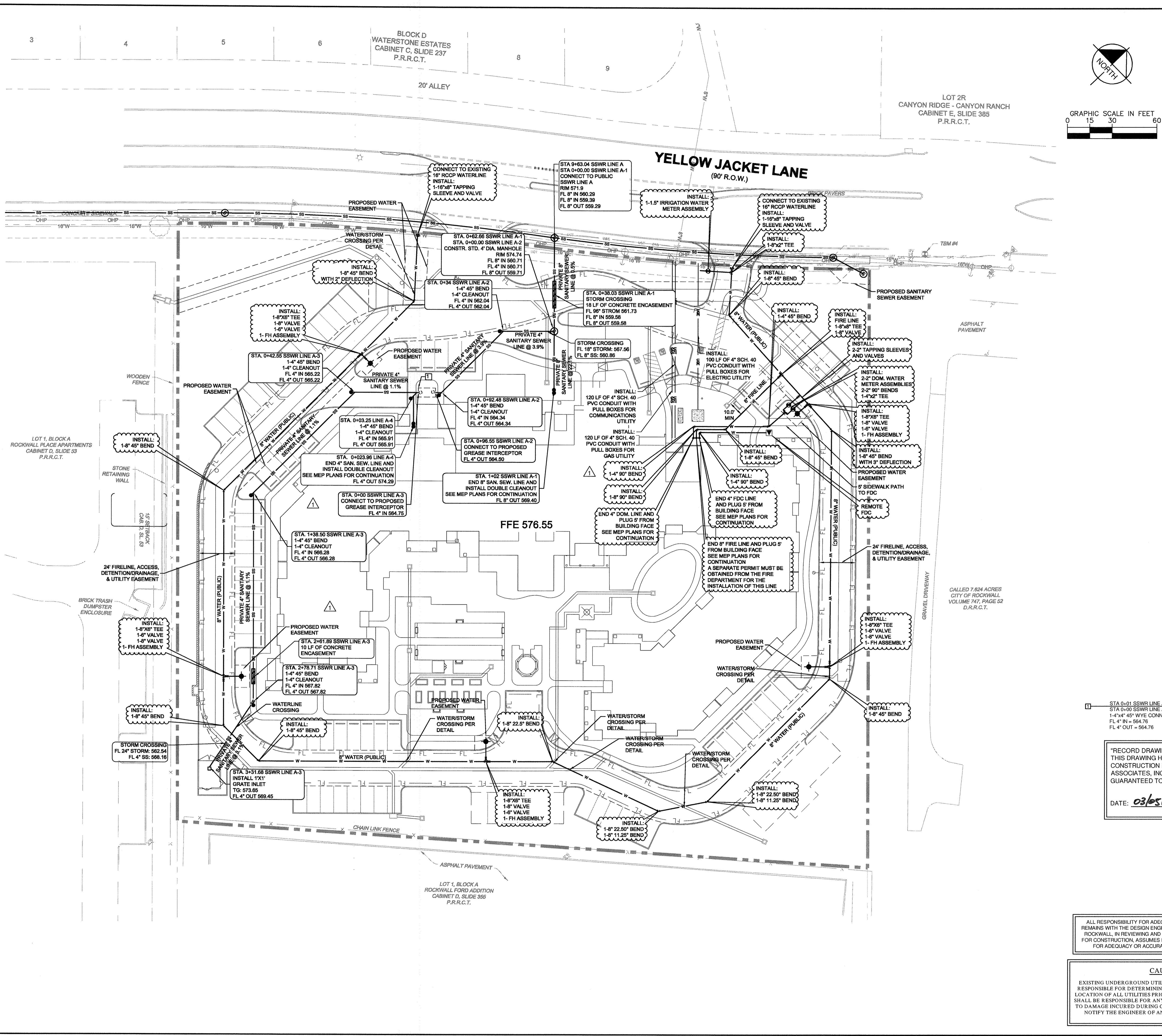
SHEET NUMBER  
**C5.8**







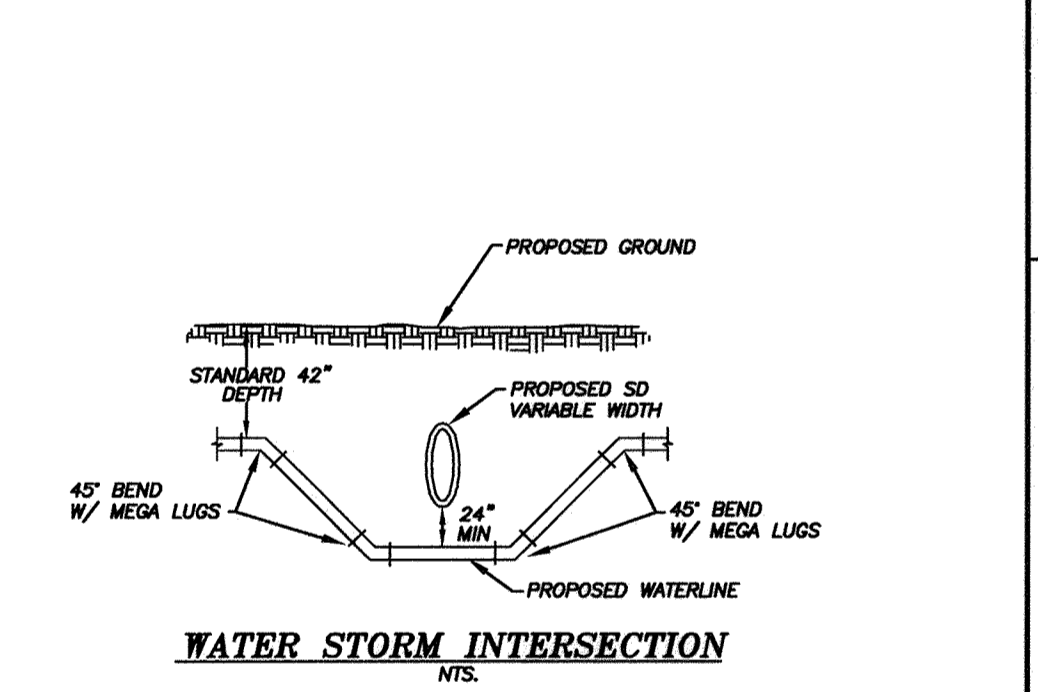
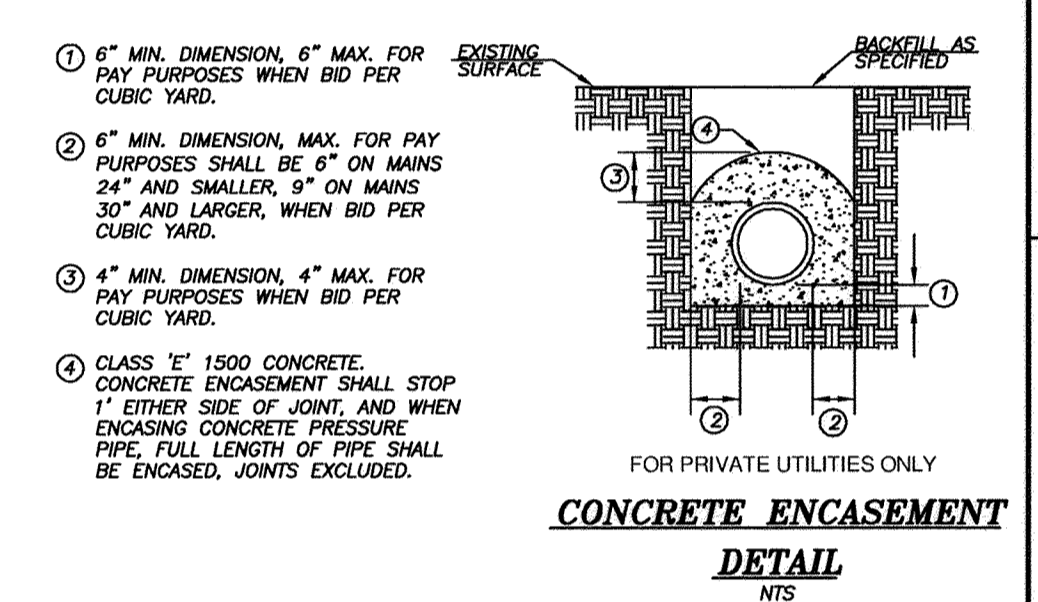
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- NOTES**
- REFER TO SHEET C1.2 FOR GENERAL NOTES.
  - UTILITY CONNECTIONS TERMINATE 5' FROM BUILDING ENVELOPE. SEE ARCHITECT AND MEP PLANS FOR CONTINUATION.
  - REFER TO LANDSCAPE PLANS FOR EXACT LOCATION AND SIZE OF SLEEVES.
  - ALL SANITARY SEWER WORK DESIGNATED AS "PRIVATE" IN THIS SET OF PLANS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTENTIONAL PLUMBING CODE, PERMITTED AND INSPECTED BY THE CITY BUILDING INSPECTION DEPARTMENT AND INSTALLED BY A LICENSED PLUMBER.
  - ALL MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING LIDS. MANHOLES IN LANDSCAPE SHALL BE 0.5' ABOVE GRADE.
  - SEE CITY OF ROCKWALL FOR UTILITY EMBEDMENT DETAILS.
  - SEPARATE PERMIT FROM THE FIRE DEPARTMENT REQUIRED FOR FIRE LINE. MINIMUM 10' SEPARATION FROM OTHER UTILITIES.
  - ALL SANITARY SEWER WORK DESIGNATED AS "PRIVATE" IN THIS SET OF PLANS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTENTIONAL PLUMBING CODE, PERMITTED AND INSPECTED BY THE CITY BUILDING INSPECTION DEPARTMENT AND INSTALLED BY A LICENSED PLUMBER.
  - REFER TO MEP FOR LIGHTING, ELECTRIC AND GAS ROUTING.
  - ALL METERS TO HAVE BACKFLOW PREVENTORS WITH DOUBLE CHECK.

**LEGEND**

PROPERTY LINE	---
FIRE LINE	---
PROPOSED EASEMENT	---
PROPOSED SANITARY SEWER LINE	---
PROPOSED WATER LINE	---
PROPOSED STORM SEWER LINE	---
PROPOSED GAS	---
PROPOSED UNDERGROUND UTILITY	---
PROPOSED UNDERGROUND ELECTRIC	---
PROPOSED SANITARY SEWER MANHOLE	(S)
PROPOSED CLEAN-OUT	---
PROPOSED FIRE HYDRANT (FH)	(FH)
PROPOSED WATER METER	(M)
EXISTING WATER LINE	---
EXISTING SANITARY SEWER LINE	---
EXISTING GAS LINE	---
EXISTING UNDERGROUND TELECOMM.	---
EXISTING OVERHEAD POWER	---
PARKING COUNT	(P)
BARRIER FREE RAMP	(BFR)
LANDSCAPE INLET	(LI)
CURB INLET	(CI)



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DATE: 03/05/2013 BY: *Barbara*

- BENCHMARKS:**
- 4" Aluminum disk in concrete stamped "City of Rockwall Monument R005" located in the center median of Summit Ridge Drive west of F. M. 740. Elev. = 578.708'
  - 2" Brass disk in concrete stamped "City of Rockwall Monument R013" located in front of 1208 Lakeshore Drive southwest of the intersection of Lakeshore Drive and Summit Ridge. Elev. = 450.606'
  - Square set with "X" on the southeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 100 feet northeast of Kyle Drive. Elev. = 522.11'
  - Square set with "X" on the northeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 10 feet southwest of westerly entrance into city park and baseball fields. Elev. = 572.55'

**CAUTION!**  
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 DIG TESS  
 1-800-DIG-TESS  
 (@ least 72 hours prior to digging)

KHA PROJECT: 064444700  
 DATE: 03/05/2013  
 SCALE: AS SHOWN  
 DESIGNED BY: CRS  
 DRAWN BY: CRS  
 CHECKED BY: BHM

RAISED FF: 1.05'  
 02/22/2012 BHM

UTILITY PLAN

ROCKWALL RETIREMENT RESIDENCE PREPARED FOR THE HAWTHORN RETIREMENT GROUP

SHEET NUMBER C6.1

CITY OF ROCKWALL

Kimley-Horn and Associates, Inc.  
 12700 PARK CENTRAL DRIVE, SUITE 1800, DALLAS, TX 75251  
 PHONE: 972-770-1300 FAX: 972-239-3820  
 WWW.KIMLEY-HORN.COM  
 TEXAS REGISTERED ENGINEERING FIRM F-928







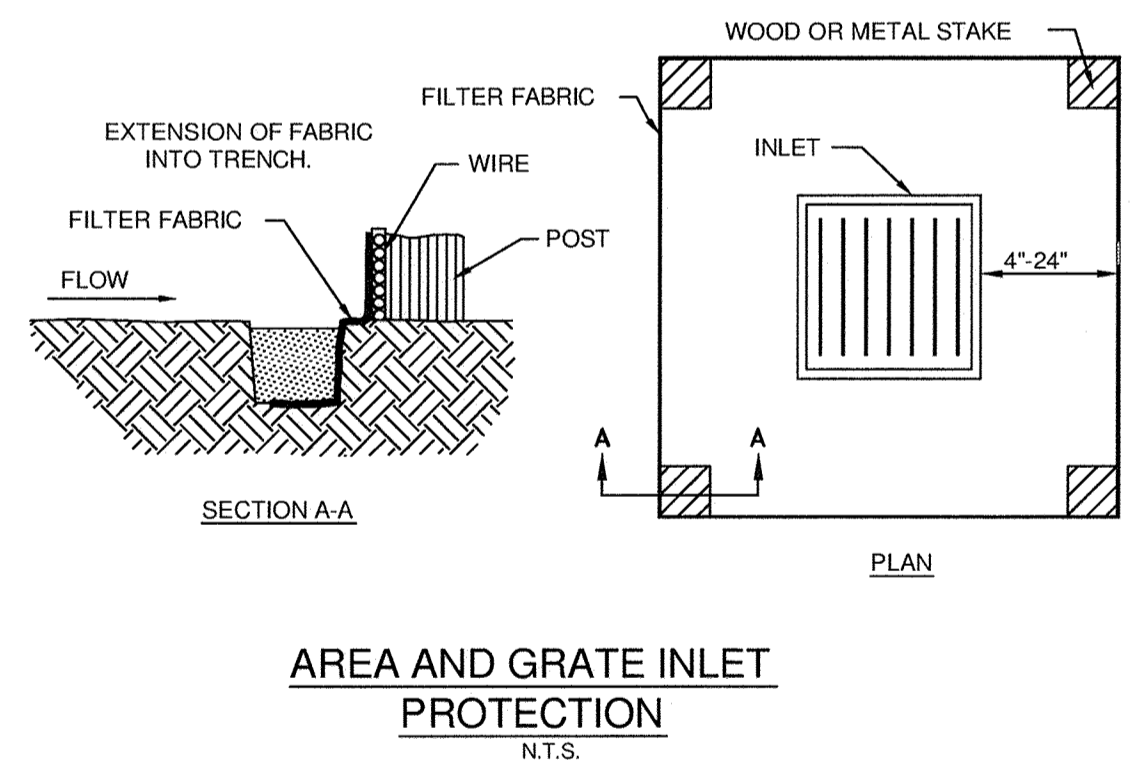
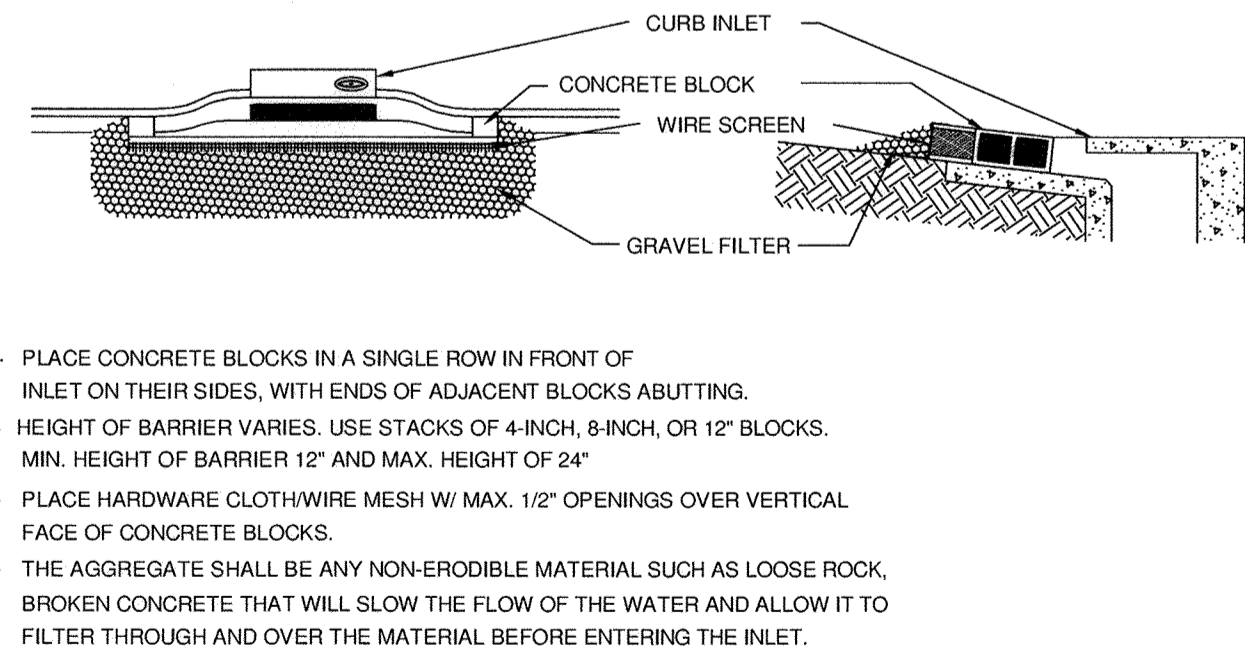
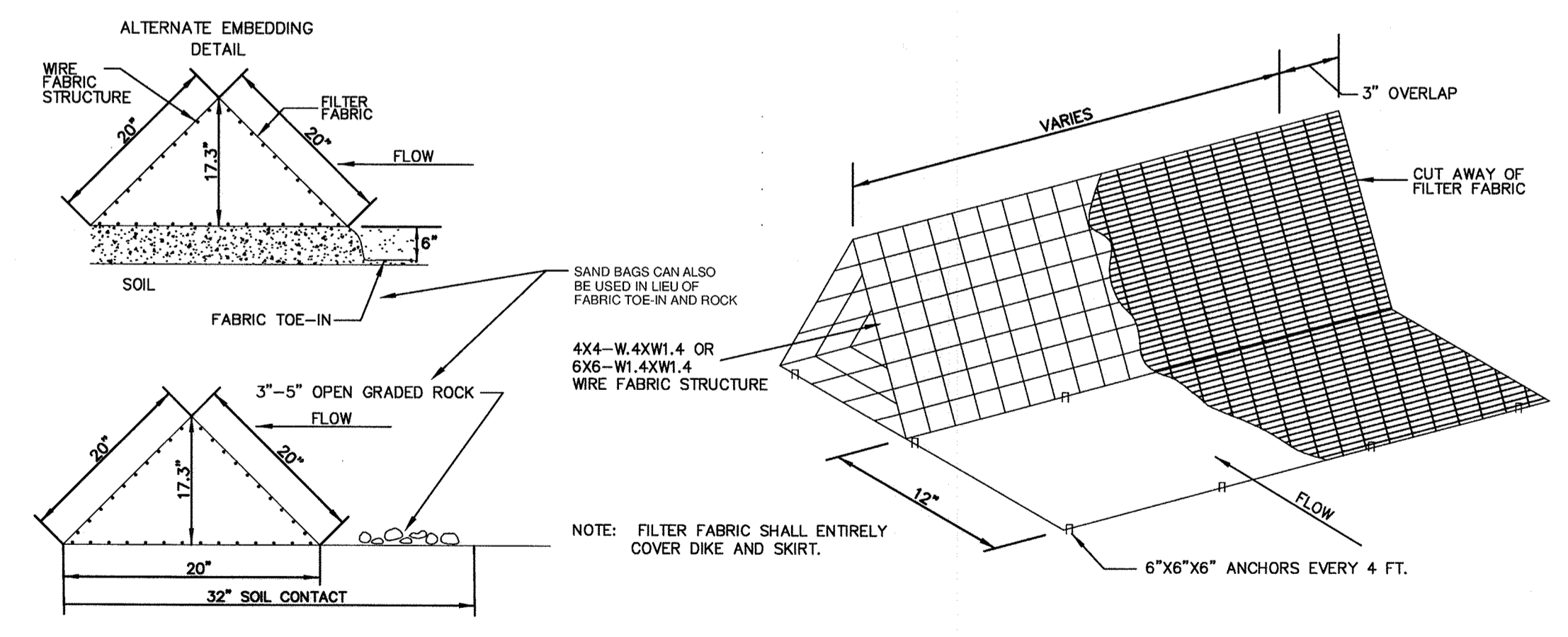
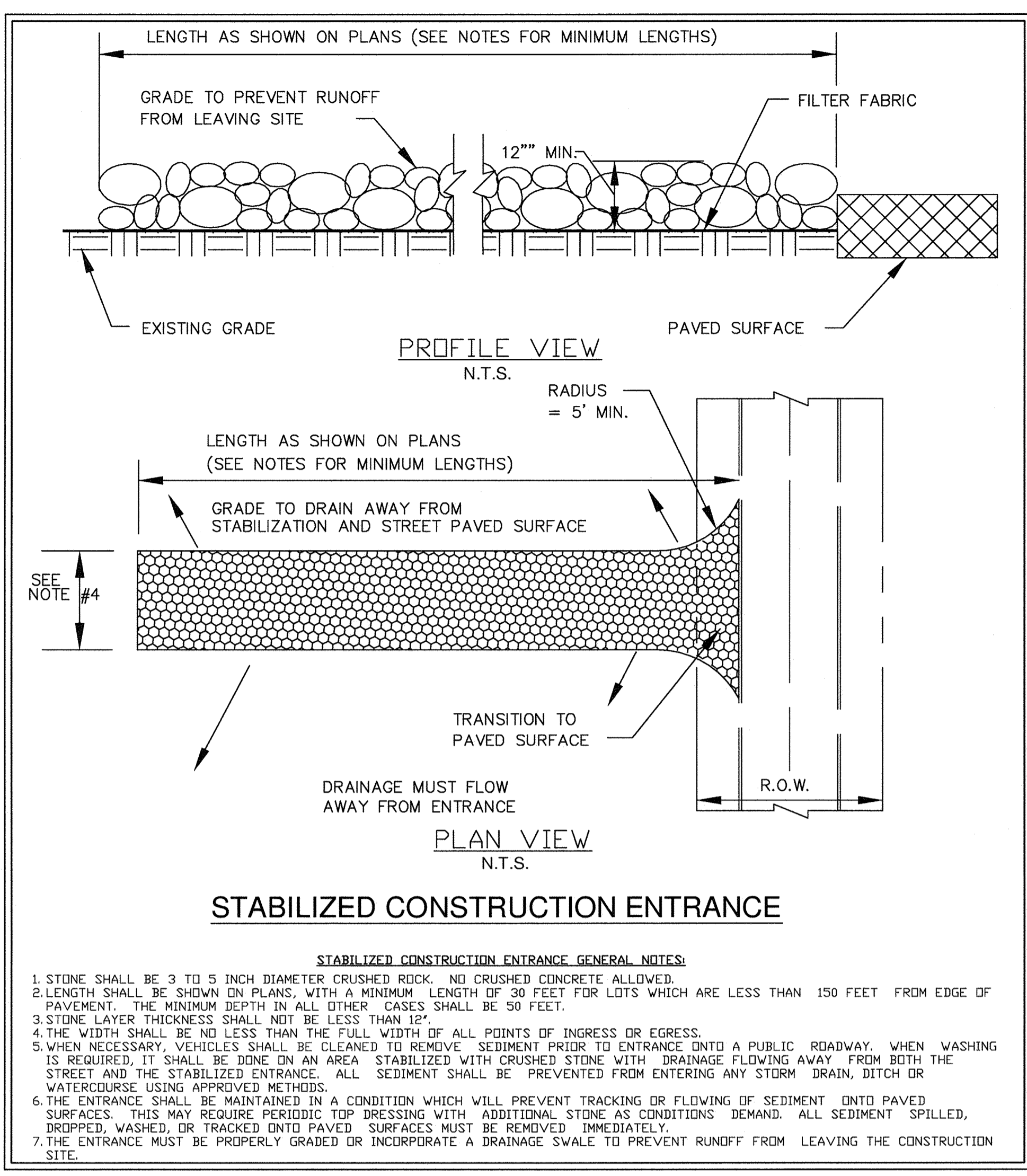
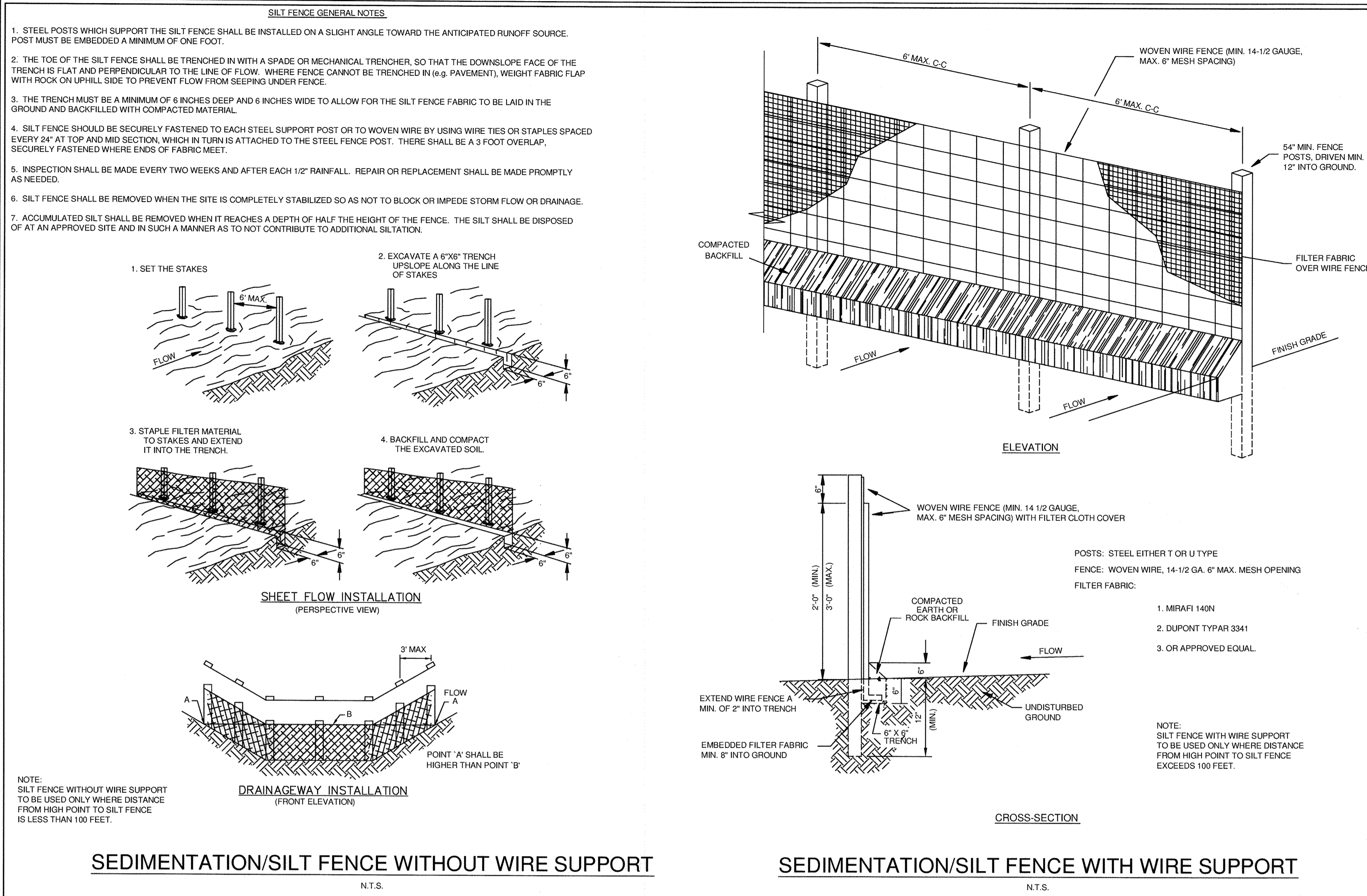








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 DESIGNED BY CRJ  
 DRAWN BY CRJ  
 CHECKED BY BJM  
 TEXAS REGISTERED ENGINEERING FIRM F-928  
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 Kimley-Horn and Associates, Inc.



**BENCHMARKS:**

- 4" Aluminum disk in concrete stamped "City of Rockwall Monument R009" located in the center median of Summit Ridge Drive west of F. M. 740. Elev. = 578.708'
- 2" Brass disk in concrete stamped "City of Rockwall Monument R013" located in front of 1208 Lakeshore Drive southwest of the intersection of Lakeshore Drive and Summit Ridge. Elev. = 450.606'
- Square set with "X" on the southeast corner of curb inlet located on the southeast side of Yellow Jacket Lane approximately 100 feet northeast of Kyle Drive. Elev. = 522.11'
- Square set with "X" on the northeast corner of curb inlet located on the southwest side of Yellow Jacket Lane approximately 10 feet southwest of westerly entrance into city park and baseball fields. Elev. = 572.59'

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

**CAUTION!!**  
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

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

**"RECORD DRAWING"**  
THIS DRAWING HAS BEEN REVISED TO SHOW THOSE CHANGES DURING THE CONSTRUCTION PROCESS REPORTED BY THE CONTRACTOR TO KIMLEY-HORN AND ASSOCIATES, INC. AND CONSIDERED TO BE SIGNIFICANT. THIS DRAWING IS NOT GUARANTEED TO BE "AS BUILT" BUT IS BASED ON THE INFORMATION MADE AVAILABLE.  
DATE: 03/05/2013 BY: *Bradley J. Moss*

**ROCKWALL RETIREMENT RESIDENCE PREPARED FOR THE HAWTHORN RETIREMENT GROUP**

**Kimley-Horn and Associates, Inc.**  
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PHONE: 972-770-1300 FAX: 972-239-3820  
WWW.KIMLEY-HORN.COM  
TEXAS REGISTERED ENGINEERING FIRM F-928

**BRADLEY J. MOSS**  
REGISTERED PROFESSIONAL ENGINEER  
LICENSE NO. 10587

**EROSION CONTROL DETAILS**

KHA PROJECT 06444700  
DATE 03/05/2013  
SCALE AS SHOWN  
DESIGNED BY CRJ  
DRAWN BY CRJ  
CHECKED BY BJM  
TEXAS

SHEET NUMBER **C7.2**